PART 70 OPERATING PERMIT
OFFICE OF AIR QUALITY

Logansport Municipal Utilities
8th and Race Streets
Logansport, Indiana 46947

(herein known as the Permittee) is hereby authorized to operate subject to the conditions contained herein, the source described in Section A (Source Summary) of this permit.

This permit is issued in accordance with 326 IAC 2 and 40 CFR Part 70 Appendix A and contains the conditions and provisions specified in 326 IAC 2-7 as required by 42 U.S.C. 7401, et. seq. (Clean Air Act as amended by the 1990 Clean Air Act Amendments), 40 CFR Part 70.6, IC 13-15 and IC 13-17.

Operation Permit No.: T017-7478-00006	
Issued by: Original Signed by Janet McCabe Janet G. McCabe, Assistant Commissioner Office of Air Quality	Issuance Date: June 28, 2002 Expiration Date: June 28, 2007

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SECTION A SOURCE SUMMARY

This permit is based on information requested by the Indiana Department of Environmental Management (IDEM), Office of Air Quality (OAQ). The information describing the source contained in conditions A.1 through A.3 is descriptive information and does not constitute enforceable conditions. However, the Permittee should be aware that a physical change or a change in the method of operation that may render this descriptive information obsolete or inaccurate may trigger requirements for the Permittee to obtain additional permits or seek modification of this permit pursuant to 326 IAC 2, or change other applicable requirements presented in the permit application.

A.1 General Information [326 IAC 2-7-4(c)] [326 IAC 2-7-5(15)] [326 IAC 2-7-1(21)]

The Permittee owns and operates a stationary electric utility generating station.

Responsible Official:	K.W. Hemberger, Superintendent of Utilities
Source Address:	8th and Race Streets, Logansport, Indiana 45947
Mailing Address:	City Building, 601 East Broadway #101, Logansport, IN 46947
SIC Code:	4911
County Location:	Cass
Source Location Status:	Attainment for all other criteria pollutants
Source Status:	Part 70 Permit Program Major Source, under PSD Rules; 1 of 28 Source Categories

A.2 Emission Units and Pollution Control Equipment Summary [326 IAC 2-7-4(c)(3)] [326 IAC 2-7-5(15)]

This stationary source consists of the following emission units and pollution control devices:

(1) One (1) spreader stoker coal-fired boiler (unit 5), constructed in 1955, rated at 200 million Btu per hour heat input, used to generate electricity. Particulate emissions are controlled by an electrostatic precipitator, opacity is measured with a continuous opacity monitor. Controlled emissions are exhausted to the atmosphere through a 150 foot (above grade) stack having a 72 inch exit diameter.

(2) One (1) spreader stoker coal-fired boiler (unit 6), constructed in 1962, rated at 300 million Btu per hour heat input, used to generate electricity. Particulate emissions are controlled by an electrostatic precipitator, opacity is measured with a continuous opacity monitor. Controlled emissions are exhausted to the atmosphere through a 150 foot (above grade) stack having an 84 inch exit diameter.

(3) One (1) ash handling system, with a maximum throughput of 21,000 tons of ash per year consisting of the following:

One (1) storage silo with a storage capacity of 6,233 ft^3. Mechanical blowers pneumatically convey bottom ash and fly ash. Ash is loaded from bottom of silo through a chute to trucks for offsite disposal. A baghouse is used to control particulate emissions and wet suppression is used to control emissions from the truck loading.

(4) One (1) natural gas-fired turbine generator, constructed in 1969, identified as TG6, rated at 75 million Btu's per hour (17,900 kW).

(5) Fugitive emissions from vehicle traffic.

A.3 Specifically Regulated Insignificant Activities [326 IAC 2-7-1(21)] [326 IAC 2-7-4(c)] [326 IAC 2-7-5(15)]

(a) Degreasing operations that do not exceed 145 gallons per 12 months, except if subject to 326 IAC 20-6.

(b) Coal Storage piles: PM emissions less than 5 lb/hr or 25 lb/day

(c) Outside handling of coal: PM emissions less than 5 lb/hr or 25 lb/day

(d) Other coal handling and conveying: PM emissions less than 5 lb/hr or 25 lb/day

A.4 Part 70 Permit Applicability [326 IAC 2-7-2]

This stationary source is required to have a Part 70 permit by 326 IAC 2-7-2 (Applicability) because:

(a) It is a major source, as defined in 326 IAC 2-7-1(22);
(b) It is a source in a source category designated by the United States Environmental Protection Agency (U.S. EPA) under 40 CFR 70.3 (Part 70 - Applicability).

SECTION B GENERAL CONDITIONS

B.1 Definitions [326 IAC 2-7-1]

Terms in this permit shall have the definition assigned to such terms in the referenced regulation. In the absence of definitions in the referenced regulation, the applicable definitions found in the statutes or regulations (IC 13-11, 326 IAC 1-2 and 326 IAC 2-7) shall prevail.

B.2 Permit Term [326 IAC 2-7-5(2)] [326 IAC 2-1.1-9.5]

This permit is issued for a fixed term of five (5) years from the original date, as determined in accordance with IC 4-21.5-3-5(f) and IC 13-15-5-3. Subsequent revisions, modifications, or amendments of this permit do not affect the expiration date of this permit or of permits issued pursuant to Title IV of the Clean Air Act and 326 IAC 21 (Acid Deposition Control).

B.3 Enforceability [326 IAC 2-7-7]

Unless otherwise stated, all terms and conditions in this permit, including any provisions designed to limit the source's potential to emit, are enforceable by IDEM, the United States Environmental Protection Agency (U.S. EPA) and by citizens in accordance with the Clean Air Act.

B.4 Termination of Right to Operate [326 IAC 2-7-10] [326 IAC 2-7-4(a)]

The Permittee's right to operate this source terminates with the expiration of this permit unless a timely and complete renewal application is submitted at least nine (9) months prior to the date of expiration of the source's existing permit, consistent with 326 IAC 2-7-3 and 326 IAC 2-7-4(a).

B.5 Severability [326 IAC 2-7-5(5)]

The provisions of this permit are severable; a determination that any portion of this permit is invalid shall not affect the validity of the remainder of the permit.

B.6 Property Rights or Exclusive Privilege [326 IAC 2-7-5(6)(D)]

This permit does not convey any property rights of any sort, or any exclusive privilege.

B.7 Duty to Supplement and Provide Information [326 IAC 2-7-4(b)] [326 IAC 2-7-5(6)(E)] [326 IAC 2-7-6(6)]

(a) The Permittee, upon becoming aware that any relevant facts were omitted or incorrect information was submitted in the permit application, shall promptly submit such supplementary facts or corrected information to:

Indiana Department of Environmental Management
Permits Branch, Office of Air Quality
100 North Senate Avenue, P. O. Box 6015
Indianapolis, Indiana 46206-6015

The submittal by the Permittee does require the certification by the "responsible official" as defined by 326 IAC 2-7-1(34).

(b) The Permittee shall furnish to IDEM, OAQ, within a reasonable time, any information that IDEM, OAQ, may request in writing to determine whether cause exists for modifying, revoking and reissuing, or terminating this permit, or to determine compliance with this permit. The submittal by the Permittee does require the certification by the "responsible official" as defined by 326 IAC 2-7-1(34). Upon request, the Permittee shall also furnish to IDEM, OAQ, copies of records required to be kept by this permit or, for information claimed to be confidential, the Permittee may furnish such records directly to

the U. S. EPA along with a claim of confidentiality. [326 IAC 2-7-5(6)(E)]

(c) The Permittee may include a claim of confidentiality in accordance with 326 IAC 17.1. When furnishing copies of requested records directly to U. S. EPA, the Permittee may assert a claim of confidentiality in accordance with 40 CFR 2, Subpart B.

B.8 Compliance with Permit Conditions [326 IAC 2-7-5(6)(A)] [326 IAC 2-7-5(6)(B)]

(a) The Permittee must comply with all conditions of this permit. Noncompliance with any provisions of this permit is grounds for:

(1) Enforcement action;

(2) Permit termination, revocation and reissuance, or modification; or

(3) Denial of a permit renewal application.

(b) Noncompliance with any provision of this permit, except any provision specifically designated as not federally enforceable, constitutes a violation of the Clean Air Act.

(c) It shall not be a defense for the Permittee in an enforcement action that it would have been necessary to halt or reduce the permitted activity in order to maintain compliance with the conditions of this permit.

(d) An emergency does constitute an affirmative defense in an enforcement action provided the Permittee complies with the applicable requirements set forth in Section B, Emergency Provisions.

B.9 Certification [326 IAC 2-7-4(f)] [326 IAC 2-7-6(1)] [326 IAC 2-7-5(3)(C)]

(a) Where specifically designated by this permit or required by an applicable requirement, any application form, report, or compliance certification submitted shall contain certification by a responsible official of truth, accuracy, and completeness. This certification shall state that, based on information and belief formed after reasonable inquiry, the statements and information in the document are true, accurate, and complete.

(b) One (1) certification shall be included, using the attached Certification Form, with each submittal requiring certification. One (1) certification can cover multiple forms in one (1) submittal.

(c) A responsible official is defined at 326 IAC 2-7-1(34).

B.10 Annual Compliance Certification [326 IAC 2-7-6(5)]

(a) The Permittee shall annually submit a compliance certification report which addresses the status of the source's compliance with the terms and conditions contained in this permit, including emission limitations, standards, or work practices. The initial certification shall cover the time period from the date of final permit issuance through December 31 of the same year. All subsequent certifications shall cover the time period from January 1 to December 31 of the previous year, and shall be submitted in letter form no later than July 1 of each year to:

Indiana Department of Environmental Management
Compliance Branch, Office of Air Quality
100 North Senate Avenue, P. O. Box 6015
Indianapolis, Indiana 46206-6015

and

United States Environmental Protection Agency, Region V
Air and Radiation Division, Air Enforcement Branch - Indiana (AE-17J)
77 West Jackson Boulevard
Chicago, Illinois 60604-3590

(b) The annual compliance certification report required by this permit shall be considered timely if the date postmarked on the envelope or certified mail receipt, or affixed by the shipper on the private shipping receipt, is on or before the date it is due. If the document is submitted by any other means, it shall be considered timely if received by IDEM, OAQ, on or before the date it is due.

(c) The annual compliance certification report shall include the following:

(1) The appropriate identification of each term or condition of this permit that is the basis of the certification;

(2) The compliance status;

(3) Whether compliance was continuous or intermittent; and

(4) The methods used for determining the compliance status of the source, currently and over the reporting period consistent with 326 IAC 2-7-5(3).

The submittal by the Permittee does require the certification by the "responsible official" as defined by 326 IAC 2-7-1(34).

B.11 Preventive Maintenance Plan [326 IAC 2-7-5(1),(3) and (13)] [326 IAC 2-7-6(1) and (6)] [326 IAC 1-6-3]

(a) If required by specific condition(s) in Section D of this permit, the Permittee shall prepare and maintain Preventive Maintenance Plans (PMPs) within ninety (90) days after issuance of this permit, including the following information on each facility:

(1) Identification of the individual(s) responsible for inspecting, maintaining, and repairing emission control devices;

(2) A description of the items or conditions that will be inspected and the inspection schedule for said items or conditions; and

(3) Identification and quantification of the replacement parts that will be maintained in inventory for quick replacement.

If, due to circumstances beyond the Permittee's control, the PMPs cannot be prepared and maintained within the above time frame, the Permittee may extend the date an additional ninety (90) days provided the Permittee notifies:

Indiana Department of Environmental Management
Compliance Branch, Office of Air Quality
100 North Senate Avenue, P. O. Box 6015
Indianapolis, Indiana 46206-6015

The PMP and the PMP extension notification do not require the certification by the "responsible official" as defined by 326 IAC 2-7-1(34).

(b) The Permittee shall implement the PMPs as necessary to ensure that failure to implement a PMP does not cause or contribute to a violation of any limitation on emissions or potential to emit.

(c) A copy of the PMPs shall be submitted to IDEM, OAQ, upon request and within a reasonable time, and shall be subject to review and approval by IDEM, OAQ. IDEM, OAQ, may require the Permittee to revise its PMPs whenever lack of proper maintenance causes or contributes to any violation. The submittal of the PMPs does not require the certification by the "responsible official" as defined by 326 IAC 2-7-1(34).

(d) Records of preventive maintenance shall be retained for a period of at least five (5) years. These records shall be kept at the source location for a minimum of three (3) years. The records may be stored elsewhere for the remaining two (2) years as long as they are available upon request. If the Commissioner makes a request for records to the Permittee, the Permittee shall furnish the records to the Commissioner within a reasonable time.

B.12 Emergency Provisions [326 IAC 2-7-16]

(a) An emergency, as defined in 326 IAC 2-7-1(12), is not an affirmative defense for an action brought for noncompliance with a federal or state health-based emission limitation.

(b) An emergency, as defined in 326 IAC 2-7-1(12), constitutes an affirmative defense to an action brought for noncompliance with a technology-based emission limitation if the affirmative defense of an emergency is demonstrated through properly signed, contemporaneous operating logs or other relevant evidence that describe the following:

(1) An emergency occurred and the Permittee can, to the extent possible, identify the causes of the emergency;

(2) The permitted facility was at the time being properly operated;

(3) During the period of an emergency, the Permittee took all reasonable steps to minimize levels of emissions that exceeded the emission standards or other requirements in this permit;

(4) For each emergency lasting one (1) hour or more, the Permittee notified IDEM, OAQ within four (4) daytime business hours after the beginning of the emergency, or after the emergency was discovered or reasonably should have been discovered;

Telephone Number: 1-800-451-6027 (ask for Office of Air Quality, Compliance Section), or
Telephone Number: 317-233-5674 (ask for Compliance Section)
Facsimile Number: 317-233-5967.

(5) For each emergency lasting one (1) hour or more, the Permittee submitted the attached Emergency Occurrence Report Form or its equivalent, either by mail or facsimile to:

Indiana Department of Environmental Management
Compliance Branch, Office of Air Quality
100 North Senate Avenue, P. O. Box 6015
Indianapolis, Indiana 46206-6015

within two (2) working days of the time when emission limitations were exceeded due to the emergency.

The notice fulfills the requirement of 326 IAC 2-7-5(3)(C)(ii) and must contain the following:

(A) A description of the emergency;

(B) Any steps taken to mitigate the emissions; and

(C) Corrective actions taken.

The notification which shall be submitted by the Permittee does not require the certification by the "responsible official" as defined by 326 IAC 2-7-1(34).

(6) The Permittee immediately took all reasonable steps to correct the emergency.

(c) In any enforcement proceeding, the Permittee seeking to establish the occurrence of an emergency has the burden of proof.

(d) This emergency provision supersedes 326 IAC 1-6 (Malfunctions). This permit condition is in addition to any emergency or upset provision contained in any applicable requirement.

(e) IDEM, OAQ, may require that the Preventive Maintenance Plans required under 326 IAC 2-7-4-(c)(10) be revised in response to an emergency.

(f) Failure to notify IDEM, OAQ, by telephone or facsimile of an emergency lasting more than one (1) hour in accordance with (b)(4) and (5) of this condition shall constitute a violation of 326 IAC 2-7 and any other applicable rules.

(g) If the emergency situation causes a deviation from a technology-based limit, the Permittee may continue to operate the affected emitting facilities during the emergency provided the Permittee immediately takes all reasonable steps to correct the emergency and minimize emissions.

B.13 Permit Shield [326 IAC 2-7-15] [326 IAC 2-7-20] [326 IAC 2-7-12]

(a) Pursuant to 326 IAC 2-7-15, the Permittee has been granted a permit shield. The permit shield provides that compliance with the conditions of this permit shall be deemed compliance with any applicable requirements as of the date of permit issuance, provided that either the applicable requirements are included and specifically identified in this permit or the permit contains an explicit determination or concise summary of a determination that other specifically identified requirements are not applicable. The Indiana statutes from IC 13 and rules from 326 IAC, referenced in conditions in this permit, are those applicable at the time the permit was issued. The issuance or

possession of this permit shall not alone constitute a defense against an alleged violation of any law, regulation or standard, except for the requirement to obtain a Part 70 permit under 326 IAC 2-7 or for applicable requirements for which a permit shield has been granted.

This permit shield does not extend to applicable requirements which are promulgated after the date of issuance of this permit unless this permit has been modified to reflect such new requirements.

(b) If, after issuance of this permit, it is determined that the permit is in nonconformance with an applicable requirement that applied to the source on the date of permit issuance, IDEM, OAQ, shall immediately take steps to reopen and revise this permit and issue a compliance order to the Permittee to ensure expeditious compliance with the applicable requirement until the permit is reissued. The permit shield shall continue in effect so long as the Permittee is in compliance with the compliance order.

(c) No permit shield shall apply to any permit term or condition that is determined after issuance of this permit to have been based on erroneous information supplied in the permit application. Erroneous information means information that the Permittee knew to be false, or in the exercise of reasonable care should have been known to be false, at the time the information was submitted.

(d) Nothing in 326 IAC 2-7-15 or in this permit shall alter or affect the following:

(1) The provisions of Section 303 of the Clean Air Act (emergency orders), including the authority of the U.S. EPA under Section 303 of the Clean Air Act;

(2) The liability of the Permittee for any violation of applicable requirements prior to or at the time of this permit's issuance;

(3) The applicable requirements of the acid rain program, consistent with Section 408(a) of the Clean Air Act; and

(4) The ability of U.S. EPA to obtain information from the Permittee under Section 114 of the Clean Air Act.

(e) This permit shield is not applicable to any change made under 326 IAC 2-7-20(b)(2) (Sections 502(b)(10) of the Clean Air Act changes) and 326 IAC 2-7-20(c)(2) (trading based on State Implementation Plan (SIP) provisions).

(f) This permit shield is not applicable to modifications eligible for group processing until after IDEM, OAQ, has issued the modifications. [326 IAC 2-7-12(c)(7)]

(g) This permit shield is not applicable to minor Part 70 permit modifications until after IDEM, OAQ, has issued the modification. [326 IAC 2-7-12(b)(7)]

B.14 Prior Permits Superseded [326 IAC 2-1.1-9.5]

(a) All terms and conditions of previous permits issued pursuant to permitting programs approved into the state implementation plan have been either

(1) incorporated as originally stated

(2) revised, or

(3) deleted

by this permit.

(b) All previous registrations and permits are superseded by this permit.

B.15 Deviations from Permit Requirements and Conditions [326 IAC 2-7-5(3)(C)(ii)]

(a) Deviations from any permit requirements (for emergencies see Section B - Emergency Provisions), the probable cause of such deviations, and any response steps or preventive measures taken shall be reported to:

Indiana Department of Environmental Management
Compliance Data Section, Office of Air Quality
100 North Senate Avenue, P.O. Box 6015
Indianapolis, Indiana 46206-6015

using the attached Quarterly Deviation and Compliance Monitoring Report, or its equivalent. A deviation required to be reported pursuant to an applicable requirement that exists independent of this permit, shall be reported according to the schedule stated in the applicable requirement and does not need to be included in this report.

The Quarterly Deviation and Compliance Monitoring Report does require the certification by the "responsible official" as defined by 326 IAC 2-7-1(34).

(b) A deviation is an exceedance of a permit limitation or a failure to comply with a requirement of the permit.

(c) Emergencies shall be included in the Quarterly Deviation and Compliance Monitoring Report.

B.16 Permit Modification, Reopening, Revocation and Reissuance, or Termination [326 IAC 2-7-5(6)(C)] [326 IAC 2-7-8(a)] [326 IAC 2-7-9]

(a) This permit may be modified, reopened, revoked and reissued, or terminated for cause. The filing of a request by the Permittee for a Part 70 permit modification, revocation and reissuance, or termination, or of a notification of planned changes or anticipated noncompliance does not stay any condition of this permit. [326 IAC 2-7-5(6)(C)] The notification by the Permittee does require the certification by the "responsible official" as defined by 326 IAC 2-7-1(34).

(b) This permit shall be reopened and revised under any of the circumstances listed in IC 13-15-7-2 or if IDEM, OAQ, determines any of the following:

(1) That this permit contains a material mistake.

(2) That inaccurate statements were made in establishing the emissions standards or other terms or conditions.

(3) That this permit must be revised or revoked to assure compliance with an applicable requirement. [326 IAC 2-7-9(a)(3)]

(c) Proceedings by IDEM, OAQ, to reopen and revise this permit shall follow the same procedures as apply to initial permit issuance and shall affect only those parts of this permit for which cause to reopen exists. Such reopening and revision shall be made as expeditiously as practicable. [326 IAC 2-7-9(b)]

(d) The reopening and revision of this permit, under 326 IAC 2-7-9(a), shall not be initiated before notice of such intent is provided to the Permittee by IDEM, OAQ at least thirty (30) days in advance of the date this permit is to be reopened, except that IDEM, OAQ, may provide a shorter time period in the case of an emergency. [326 IAC 2-7-9(c)]

B.17 Permit Renewal [326 IAC 2-7-3] [326 IAC 2-7-4]

(a) The application for renewal shall be submitted using the application form or forms prescribed by IDEM, OAQ, and shall include the information specified in 326 IAC 2-7-4. Such information shall be included in the application for each emission unit at this source, except those emission units included on the trivial or insignificant activities list contained in 326 IAC 2-7-1(21) and 326 IAC 2-7-1(40). The renewal application does require the certification by the "responsible official" as defined by 326 IAC 2-7-1(34).

Request for renewal shall be submitted to:

Indiana Department of Environmental Management
Permits Branch, Office of Air Quality
100 North Senate Avenue, P.O. Box 6015
Indianapolis, Indiana 46206-6015

(b) Timely Submittal of Permit Renewal [326 IAC 2-7-4(a)(1)(D)]

(1) A timely renewal application is one that is:

(A) Submitted at least nine (9) months prior to the date of the expiration of this permit; and

(B) If the date postmarked on the envelope or certified mail receipt, or affixed by the shipper on the private shipping receipt, is on or before the date it is due. If the document is submitted by any other means, it shall be considered timely if received by IDEM, OAQ, on or before the date it is due.

(2) If IDEM, OAQ, upon receiving a timely and complete permit application, fails to issue or deny the permit renewal prior to the expiration date of this permit, this existing permit shall not expire and all terms and conditions shall continue in effect, including any permit shield provided in 326 IAC 2-7-15, until the renewal permit has been issued or denied.

(c) Right to Operate After Application for Renewal [326 IAC 2-7-3] [326 IAC 2-7-4]
If the Permittee submits a timely and complete application for renewal of this permit, the source's failure to have a permit is not a violation of 326 IAC 2-7 until IDEM, OAQ, takes final action on the renewal application, except that this protection shall cease to apply if, subsequent to the completeness determination, the Permittee fails to submit by a reasonable deadline specified in writing by IDEM, OAQ, any additional information identified as being needed to process the application. [326 IAC 2-7-4(a)(2)(D) and (E)]

(d) United States Environmental Protection Agency Authority [326 IAC 2-7-8(e)]
If IDEM, OAQ, fails to act in a timely way on a Part 70 permit renewal, the U.S. EPA may invoke its authority under Section 505(e) of the Clean Air Act to terminate or revoke and reissue a Part 70 permit.

B.18 Source Modification [326 IAC 1-2-42] [326 IAC 2-7-10.5]

(a) The Permittee shall obtain approval as required by 326 IAC 2-7-10.5 from the OAQ prior to making any modification to the source. Pursuant to 326 IAC 1-2-42, "Modification" means one (1) or more of the following activities at an existing source:

(1) A physical change or change in the method of operation of any existing emissions unit that increases the potential to emit any regulated pollutant that could be emitted from the emissions unit, or that results in emissions of any regulated pollutant not previously emitted.

(2) Construction of one (1) or more new emissions units that have the potential to emit regulated air pollutants.

(3) Reconstruction of one (1) or more existing emission units that increases the potential to emit of any regulated air pollutant.

(b) Any application requesting a source modification shall be submitted to:

Indiana Department of Environmental Management
Permits Branch, Office of Air Quality
100 North Senate Avenue, P.O. Box 6015
Indianapolis, Indiana 46206-6015

Any such application shall be certified by the "responsible official" as defined by 326 IAC 2-7-1(34).

(c) The Permittee shall also comply with the applicable provisions of 326 IAC 2-7-11 (Administrative Permit Amendments) or 326 IAC 2-7-12 (Permit Modification) prior to operating the approved modification.

B.19 Permit Amendment or Modification [326 IAC 2-7-11] [326 IAC 2-7-12] [40 CFR 72]

(a) Permit amendments and modifications are governed by the requirements of 326 IAC 2-7-11 or 326 IAC 2-7-12 whenever the Permittee seeks to amend or modify this permit.

(b) Pursuant to 326 IAC 2-7-11(b) and 326 IAC 2-7-12(a), administrative Part 70 permit amendments and permit modifications for purposes of the acid rain portion of a Part 70 permit shall be governed by regulations promulgated under Title IV of the Clean Air Act. [40 CFR 72]

(c) Any application requesting an amendment or modification of this permit shall be submitted to:

Indiana Department of Environmental Management
Permits Branch, Office of Air Quality
100 North Senate Avenue, P.O. Box 6015
Indianapolis, Indiana 46206-6015

Any such application shall be certified by the "responsible official" as defined by 326 IAC 2-7-1(34).

(d) The Permittee may implement administrative amendment changes addressed in the request for an administrative amendment immediately upon submittal of the request. [326 IAC 2-7-11(c)(3)]

B.20 Permit Revision Under Economic Incentives and Other Programs [326 IAC 2-7-5(8)] [326 IAC 2-7-12 (b)(2)]

(a) No Part 70 permit revision shall be required under any approved economic incentives, marketable Part 70 permits, emissions trading, and other similar programs or processes for changes that are provided for in a Part 70 permit.

(b) Notwithstanding 326 IAC 2-7-12(b)(1)(D)(i) and 326 IAC 2-7-12(c)(1), minor Part 70 permit modification procedures may be used for Part 70 modifications involving the use of economic incentives, marketable Part 70 permits, emissions trading, and other similar approaches to the extent that such minor Part 70 permit modification procedures are explicitly provided for in the applicable State Implementation Plan (SIP) or in applicable requirements promulgated or approved by the U.S. EPA.

B.21 Operational Flexibility [326 IAC 2-7-20] [326 IAC 2-7-10.5]

(a) The Permittee may make any change or changes at the source that are described in 326 IAC 2-7-20(b), (c), or (e), without a prior permit revision, if each of the following conditions is met:

(1) The changes are not modifications under any provision of Title I of the Clean Air Act;

(2) Any preconstruction approval required by 326 IAC 2-7-10.5 has been obtained;

(3) The changes do not result in emissions which exceed the emissions allowable under this permit (whether expressed herein as a rate of emissions or in terms of total emissions);

(4) The Permittee notifies the:

Indiana Department of Environmental Management
Permits Branch, Office of Air Quality
100 North Senate Avenue, P. O. Box 6015
Indianapolis, Indiana 46206-6015

and

United States Environmental Protection Agency, Region V
Air and Radiation Division, Regulation Development Branch - Indiana (AR-18J)
77 West Jackson Boulevard
Chicago, Illinois 60604-3590

in advance of the change by written notification at least ten (10) days in advance of the proposed change. The Permittee shall attach every such notice to the Permittee's copy of this permit; and

(5) The Permittee maintains records on-site which document, on a rolling five (5) year basis, all such changes and emissions trading that are subject to 326 IAC 2-7-20(b), (c), or (e) and makes such records available, upon reasonable request, for public review.

Such records shall consist of all information required to be submitted to IDEM, OAQ, in the notices specified in 326 IAC 2-7-20(b), (c)(1), and (e)(2).

(b) The Permittee may make Section 502(b)(10) of the Clean Air Act changes (this term is defined at 326 IAC 2-7-1(36)) without a permit revision, subject to the constraint of 326 IAC 2-7-20(a). For each such Section 502(b)(10) of the Clean Air Act change, the required written notification shall include the following:

(1) A brief description of the change within the source;

(2) The date on which the change will occur;

(3) Any change in emissions; and

(4) Any permit term or condition that is no longer applicable as a result of the change.

The notification which shall be submitted is not considered an application form, report or compliance certification. Therefore, the notification by the Permittee does not require the certification by the "responsible official" as defined by 326 IAC 2-7-1(34).

(c) Emission Trades [326 IAC 2-7-20(c)]
The Permittee may trade increases and decreases in emissions in the source, where the applicable SIP provides for such emission trades without requiring a permit revision, subject to the constraints of Section (a) of this condition and those in 326 IAC 2-7-20(c).

(d) Alternative Operating Scenarios [326 IAC 2-7-20(d)]
The Permittee may make changes at the source within the range of alternative operating scenarios that are described in the terms and conditions of this permit in accordance with 326 IAC 2-7-5(9). No prior notification of IDEM, OAQ, or U.S. EPA is required.

(e) Backup fuel switches specifically addressed in, and limited under, Section D of this permit shall not be considered alternative operating scenarios. Therefore, the notification requirements of part (a) of this condition do not apply.

B.22 Inspection and Entry [326 IAC 2-7-6] [IC 13-14-2-2]

Upon presentation of proper identification cards, credentials, and other documents as may be required by law, and subject to the Permittee's right under all applicable laws and regulations to assert that the information collected by the agency is confidential and entitled to be treated as such, the Permittee shall allow IDEM, OAQ, U.S. EPA, or an authorized representative to perform the following:

(a) Enter upon the Permittee's premises where a Part 70 source is located, or emissions related activity is conducted, or where records must be kept under the conditions of this permit;

(b) Have access to and copy any records that must be kept under the conditions of this permit;

(c) Inspect any facilities, equipment (including monitoring and air pollution control equipment), practices, or operations regulated or required under this permit;

(d) Sample or monitor substances or parameters for the purpose of assuring compliance with this permit or applicable requirements; and

(e) Utilize any photographic, recording, testing, monitoring, or other equipment for the purpose of assuring compliance with this permit or applicable requirements.

B.23 Transfer of Ownership or Operational Control [326 IAC 2-7-11]

(a) The Permittee must comply with the requirements of 326 IAC 2-7-11 whenever the Permittee seeks to change the ownership or operational control of the source and no other change in the permit is necessary.

(b) Any application requesting a change in the ownership or operational control of the source shall contain a written agreement containing a specific date for transfer of permit responsibility, coverage and liability between the current and new Permittee. The application shall be submitted to:

Indiana Department of Environmental Management
Permits Branch, Office of Air Quality
100 North Senate Avenue, P.O. Box 6015
Indianapolis, Indiana 46206-6015

The application which shall be submitted by the Permittee does require the certification by the "responsible official" as defined by 326 IAC 2-7-1(34).

(c) The Permittee may implement administrative amendment changes addressed in the request for an administrative amendment immediately upon submittal of the request. [326 IAC 2-7-11(c)(3)]

B.24 Annual Fee Payment [326 IAC 2-7-19] [326 IAC 2-7-5(7)]

(a) The Permittee shall pay annual fees to IDEM, OAQ, within thirty (30) calendar days of receipt of a billing. Pursuant to 326 IAC 2-7-19(b), if the Permittee does not receive a bill from IDEM, OAQ, the applicable fee is due April 1 of each year.

(b) Except as provided in 326 IAC 2-7-19(e), failure to pay may result in administrative enforcement action or revocation of this permit.

(c) The Permittee may call the following telephone numbers: 1-800-451-6027 or 317-233-0425 (ask for OAQ, Technical Support and Modeling Section), to determine the appropriate permit fee.

SECTION C SOURCE OPERATION CONDITIONS

Entire Source

Emission Limitations and Standards [326 IAC 2-7-5(1)]

C.1 Particulate Matter Emission Limitations For Processes with Process Weight Rates Less Than One Hundred (100) pounds per hour [326 IAC 6-3-2(c)]

Pursuant to 326 IAC 6-3-2(c), the allowable particulate matter emissions rate from any process not already regulated by 326 IAC 6-1 or any New Source Performance Standard, and which has a maximum process weight rate less than 100 pounds per hour shall not exceed 0.551 pounds per hour.

C.2 Opacity [326 IAC 5-1]

Pursuant to 326 IAC 5-1-2 (Opacity Limitations), except as provided in 326 IAC 5-1-3 (Temporary Alternative Opacity Limitations), opacity shall meet the following, unless otherwise stated in this permit:

(a) Opacity shall not exceed an average of forty percent (40%) in any one (1) six (6) minute averaging period as determined in 326 IAC 5-1-4.

(b) Opacity shall not exceed sixty percent (60%) for more than a cumulative total of fifteen (15) minutes (sixty (60) readings as measured according to 40 CFR 60, Appendix A, Method 9 or fifteen (15) one (1) minute nonoverlapping integrated averages for a continuous opacity monitor) in a six (6) hour period.

C.3 Open Burning [326 IAC 4-1] [IC 13-17-9]

The Permittee shall not open burn any material except as provided in 326 IAC 4-1-3, 326 IAC 4-1-4 or 326 IAC 4-1-6. The previous sentence notwithstanding, the Permittee may open burn in accordance with an open burning approval issued by the Commissioner under 326 IAC 4-1-4.1. 326 IAC 4-1-3 (a)(2)(A) and (B) are not federally enforceable.

C.4 Incineration [326 IAC 4-2][326 IAC 9-1-2]

The Permittee shall not operate an incinerator or incinerate any waste or refuse except as provided in 326 IAC 4-2 and 326 IAC 9-1-2. 326 IAC 9-1-2 is not federally enforceable.

C.5 Fugitive Dust Emissions [326 IAC 6-4]

The Permittee shall not allow fugitive dust to escape beyond the property line or boundaries of the property, right-of-way, or easement on which the source is located, in a manner that would violate 326 IAC 6-4 (Fugitive Dust Emissions). 326 IAC 6-4-2(4) is not federally enforceable.

C.6 Stack Height [326 IAC 1-7]

The Permittee shall comply with the applicable provisions of 326 IAC 1-7 (Stack Height Provisions), for all exhaust stacks through which a potential (before controls) of twenty-five (25) tons per year or more of particulate matter or sulfur dioxide is emitted. The provisions of 326 IAC 1-7-2, 326 IAC 1-7-3(c) and (d), 326 IAC 1-7-4(d), (e), and (f), and 326 IAC 1-7-5(d) are not federally enforceable.

C.7 Asbestos Abatement Projects [326 IAC 14-10] [326 IAC 18] [40 CFR 61, Subpart M]

The Permittee shall comply with the applicable requirements of 326 IAC 14-10, 326 IAC 18, and 40 CFR 61.140.

Testing Requirements [326 IAC 2-7-6(1)]

C.8 Performance Testing [326 IAC 3-6]

(a) All testing shall be performed according to the provisions of 326 IAC 3-6 (Source Sampling Procedures), except as provided elsewhere in this permit, utilizing any applicable procedures and analysis methods specified in 40 CFR 51, 40 CFR 60, 40 CFR 61, 40 CFR 63, 40 CFR 75, or other procedures approved by IDEM, OAQ.

A test protocol, except as provided elsewhere in this permit, shall be submitted to:

Indiana Department of Environmental Management
Compliance Data Section, Office of Air Quality
100 North Senate Avenue, P. O. Box 6015
Indianapolis, Indiana 46206-6015

no later than thirty-five (35) days prior to the intended test date. The protocol submitted by the Permittee does not require certification by the "responsible official" as defined by 326 IAC 2-7-1(34).

(b) The Permittee shall notify IDEM, OAQ of the actual test date at least fourteen (14) days prior to the actual test date. The notification submitted by the Permittee does not require certification by the "responsible official" as defined by 326 IAC 2-7-1(34).

(c) Pursuant to 326 IAC 3-6-4(b), all test reports must be received by IDEM, OAQ not later than forty-five (45) days after the completion of the testing. An extension may be granted by IDEM, OAQ, if the source submits to IDEM, OAQ, a reasonable written explanation not later than five (5) days prior to the end of the initial forty-five (45) day period.

Compliance Requirements [326 IAC 2-1.1-11]

C.9 Compliance Requirements [326 IAC 2-1.1-11]

The commissioner may require stack testing, monitoring, or reporting at any time to assure compliance with all applicable requirements. Any monitoring or testing shall be performed in accordance with 326 IAC 3 or other methods approved by the commissioner or the U. S. EPA.

Compliance Monitoring Requirements [326 IAC 2-7-5(1)] [326 IAC 2-7-6(1)]

C.10 Compliance Monitoring [326 IAC 2-7-5(3)] [326 IAC 2-7-6(1)]

Unless otherwise specified in this permit, all monitoring and record keeping requirements not already legally required shall be implemented within ninety (90) days of permit issuance. If required by Section D, the Permittee shall be responsible for installing any necessary equipment and initiating any required monitoring related to that equipment. If due to circumstances beyond its control, that equipment cannot be installed and operated within ninety (90) days, the Permittee may extend the compliance schedule related to the equipment for an additional ninety (90) days provided the Permittee notifies:

Indiana Department of Environmental Management
Compliance Branch, Office of Air Quality
100 North Senate Avenue, P. O. Box 6015
Indianapolis, Indiana 46206-6015

in writing, prior to the end of the initial ninety (90) day compliance schedule, with full justification of the reasons for the inability to meet this date.

The notification which shall be submitted by the Permittee does require the certification by the "responsible official" as defined by 326 IAC 2-7-1(34).

Unless otherwise specified in the approval for the new emission unit(s), compliance monitoring for new emission units or emission units added through a source modification shall be implemented when operation begins.

C.11 Maintenance of Opacity Monitoring Equipment [326 IAC 2-7-5(3)(A)(iii)]

(a) The Permittee shall install, calibrate, maintain, and operate all necessary opacity monitors and related equipment. In addition, prompt corrective action shall be initiated whenever indicated.

(b) In the event that a breakdown of the continuous opacity monitoring equipment occurs, a record shall be made of the times and reasons of the breakdown and efforts made to correct the problem.

(c) Whenever the continuous opacity monitor is malfunctioning or will be down for calibration, maintenance, or repairs for a period of four (4) hours or more, a calibrated backup COM shall be brought online within four (4) hours of shutdown of the primary COM, if possible. If this is not possible, visible emission readings shall be performed in accordance with 40 CFR 60, Appendix A, Method 9, for a minimum of one (1) hour beginning four (4) hours after the start of the malfunction or down time.

(1) If the reading period begins less than one hour before sunset, readings shall be performed until sunset. If the first required reading period would occur between sunset and sunrise, the first reading shall be performed as soon as there is sufficient daylight.

(2) Method 9 opacity readings shall be repeated for a minimum of one (1) hour at least once every four (4) hours during daylight operations, until such time that the continuous opacity monitor is back in operation.

(3) All of the opacity readings during this period shall be reported in the Quarterly Deviation and Compliance Monitoring Reports.

(d) Nothing in this condition, or in Section D of this permit, shall excuse the Permittee from complying with the requirements to operate a continuous opacity monitor system pursuant to 326 IAC 3-5.

C.12 Monitoring Methods [326 IAC 3] [40 CFR 60] [40 CFR 63]

Any monitoring or testing required by Section D of this permit shall be performed according to the provisions of 326 IAC 3, 40 CFR 60 Appendix A, 40 CFR 60 Appendix B, 40 CFR 63, or other approved methods as specified in this permit.

C.13 Pressure Gauge and Other Instrument Specifications [326 IAC 2-1.1-11] [326 IAC 2-7-5(3)] [326 IAC 2-7-6(1)]

(a) Whenever a condition in this permit requires the measurement of pressure drop across any part of the unit or its control device, the gauge employed shall have a scale such that the expected normal reading shall be no less than twenty percent (20%) of full scale and be accurate within plus or minus two percent (±2%) of full scale reading.

(b) Whenever a condition in this permit requires the measurement of a temperature, flow rate, or pH level, the instrument employed shall have a scale such that the expected normal reading shall be no less than twenty percent (20%) of full scale and be accurate within plus or minus two percent (±2%) of full scale reading.

(c) The Permittee may request the IDEM, OAQ approve the use of a pressure gauge or other instrument that does not meet the above specifications provided the Permittee can demonstrate an alternative pressure gauge or other instrument specification will adequately ensure compliance with permit conditions requiring the measurement of pressure drop or other parameters.

Corrective Actions and Response Steps [326 IAC 2-7-5] [326 IAC 2-7-6]

C.14 Emergency Reduction Plans [326 IAC 1-5-2] [326 IAC 1-5-3]

Pursuant to 326 IAC 1-5-2 (Emergency Reduction Plans; Submission):

(a) The Permittee shall prepare written emergency reduction plans (ERPs) consistent with safe operating procedures.

(b) These ERPs shall be submitted for approval to:

Indiana Department of Environmental Management
Compliance Branch, Office of Air Quality
100 North Senate Avenue, P.O. Box 6015
Indianapolis, Indiana 46206-6015

within ninety (90) days after the date of issuance of this permit.

The ERP does require the certification by the "responsible official" as defined by 326 IAC 2-7-1(34).

(c) If the ERP is disapproved by IDEM, OAQ, the Permittee shall have an additional thirty (30) days to resolve the differences and submit an approvable ERP.

(d) These ERPs shall state those actions that will be taken, when each episode level is declared, to reduce or eliminate emissions of the appropriate air pollutants.

(e) Said ERPs shall also identify the sources of air pollutants, the approximate amount of reduction of the pollutants, and a brief description of the manner in which the reduction will be achieved.

(f) Upon direct notification by IDEM, OAQ, that a specific air pollution episode level is in effect, the Permittee shall immediately put into effect the actions stipulated in the approved ERP for the appropriate episode level. [326 IAC 1-5-3]

C.15 Risk Management Plan [326 IAC 2-7-5(12)] [40 CFR 68.215]

(a) If a regulated substance, subject to 40 CFR 68, is present at a source in more than a threshold quantity, 40 CFR 68 is an applicable requirement.

(b) The Permittee shall verify that a Risk Management Plan or a revised plan was prepared as required by 40 CFR 68 and submitted to IDEM, OAQ.

All documents submitted pursuant to this condition shall include the certification by the "responsible official" as defined by 326 IAC 2-7-1(34).

C.16 Compliance Response Plan - Preparation, Implementation, Records and Reports [326 IAC 2-7-5] [326 IAC 2-7-6]

(a) The Permittee is required to prepare a Compliance Response Plan (CRP) for each compliance monitoring condition of this permit. A CRP shall be submitted to IDEM, OAQ upon request. The CRP shall be prepared within ninety (90) days after issuance of this permit by the Permittee, supplemented from time to time by the Permittee, maintained on site, and comprised of:

(1) Reasonable response steps that may be implemented in the event a response step is needed pursuant to the requirements of Section D of this permit; and an expected time frame for taking reasonable response steps.

(2) If, at any time, the Permittee takes reasonable response steps that are not set forth in the Permittee's current Compliance Response Plan and the Permittee documents such response in accordance with subsection (e) below, the Permittee shall amend its Compliance Response Plan to include such response steps taken.

(b) For each compliance monitoring condition of this permit, reasonable response steps shall be taken when indicated by the provisions of that compliance monitoring condition as follows:

(1) Reasonable response steps shall be taken as set forth in the Permittee's current Compliance Response Plan; or

(2) If none of the reasonable response steps listed in the Compliance Response Plan is applicable or responsive to the excursion, the Permittee shall devise and implement additional response steps as expeditiously as practical. Taking such additional response steps shall not be considered a deviation from this permit so long as the Permittee documents such response steps in accordance with this condition.

(3) If the Permittee determines that additional response steps would necessitate that the emissions unit or control device be shut down, the IDEM, OAQ shall be promptly notified of the expected date of the shut down, the status of the applicable compliance monitoring parameter with respect to normal, and the results of the actions taken up to the time of notification.

(4) Failure to take reasonable response steps shall constitute a violation of the permit.

(c) The Permittee is not required to take any further response steps for any of the following reasons:

(1) A false reading occurs due to the malfunction of the monitoring equipment and prompt action was taken to correct the monitoring equipment.

(2) The Permittee has determined that the compliance monitoring parameters established in the permit conditions are technically inappropriate, has previously submitted a request for a minor permit modification to the permit, and such request has not been denied.

(3) An automatic measurement was taken when the process was not operating.

(4) The process has already returned or is returning to operating within "normal" parameters and no response steps are required.

(d) When implementing reasonable steps in response to a compliance monitoring condition, if the Permittee determines that an exceedance of an emission limitation has occurred, the Permittee shall report such deviations pursuant to Section B-Deviations from Permit Requirements and Conditions.

(e) The Permittee shall record all instances when response steps are taken. In the event of an emergency, the provisions of 326 IAC 2-7-16 (Emergency Provisions) requiring prompt corrective action to mitigate emissions shall prevail.

(f) Except as otherwise provided by a rule or provided specifically in Section D, all monitoring as required in Section D shall be performed when the emission unit is operating, except for time necessary to perform quality assurance and maintenance activities.

C.17 Actions Related to Noncompliance Demonstrated by a Stack Test [326 IAC 2-7-5] [326 IAC 2-7-6]

(a) When the results of a stack test performed in conformance with Section C - Performance Testing, of this permit exceed the level specified in any condition of this permit, the Permittee shall take appropriate response actions. The Permittee shall submit a description of these response actions to IDEM, OAQ, within thirty (30) days of receipt of the test results. The Permittee shall take appropriate action to minimize excess emissions from the affected facility while the response actions are being implemented.

(b) A retest to demonstrate compliance shall be performed within one hundred twenty (120) days of receipt of the original test results. Should the Permittee demonstrate to IDEM, OAQ that retesting in one-hundred and twenty (120) days is not practicable, IDEM, OAQ may extend the retesting deadline.

(c) IDEM, OAQ reserves the authority to take any actions allowed under law in response to noncompliant stack tests.

The documents submitted pursuant to this condition do require the certification by the "responsible official" as defined by 326 IAC 2-7-1(34).

Record Keeping and Reporting Requirements [326 IAC 2-7-5(3)] [326 IAC 2-7-19]

C.18 Emission Statement [326 IAC 2-7-5(3)(C)(iii)][326 IAC 2-7-5(7)][326 IAC 2-7-19(c)][326 IAC 2-6]

(a) The Permittee shall submit an annual emission statement certified pursuant to the requirements of 326 IAC 2-6, that must be received by July 1 of each year and must comply with the minimum requirements specified in 326 IAC 2-6-4. The annual emission statement shall meet the following requirements:

(1) Indicate estimated actual emissions of criteria pollutants from the source, in compliance with 326 IAC 2-6 (Emission Reporting);

(2) Indicate estimated actual emissions of other regulated pollutants (as defined by 326 IAC 2-7-1) from the source, for purposes of Part 70 fee assessment.

(b) The annual emission statement covers the twelve (12) consecutive month time period starting January 1 and ending December 31. The annual emission statement must be submitted to:

Indiana Department of Environmental Management
Technical Support and Modeling Section, Office of Air Quality
100 North Senate Avenue, P. O. Box 6015
Indianapolis, Indiana 46206-6015

The emission statement does require the certification by the "responsible official" as defined by 326 IAC 2-7-1(34).

(c) The annual emission statement required by this permit shall be considered timely if the date postmarked on the envelope or certified mail receipt, or affixed by the shipper on the private shipping receipt, is on or before the date it is due. If the document is submitted by any other means, it shall be considered timely if received by IDEM, OAQ, on or before the date it is due.

C.19 General Record Keeping Requirements [326 IAC 2-7-5(3)] [326 IAC 2-7-6]

(a) Records of all required data, reports and support information shall be retained for a period of at least five (5) years from the date of monitoring sample, measurement, report, or application. These records shall be kept at the source location for a minimum of three (3) years. The records may be stored elsewhere for the remaining two (2) years as long as they are available upon request. If the Commissioner makes a request for records to the Permittee, the Permittee shall furnish the records to the Commissioner within a reasonable time.

(b) Unless otherwise specified in this permit, all record keeping requirements not already legally required shall be implemented within ninety (90) days of permit issuance.

C.20 General Reporting Requirements [326 IAC 2-7-5(3)(C)] [326 IAC 2-1.1-11]

(a) The source shall submit the attached Quarterly Deviation and Compliance Monitoring Report or its equivalent. Any deviation from permit requirements, the date(s) of each deviation, the cause of the deviation, and the response steps taken must be reported. This report shall be submitted within thirty (30) days of the end of the reporting period. The Quarterly Deviation and Compliance Monitoring Report shall include the certification by the "responsible official" as defined by 326 IAC 2-7-1(34).

(b) The report required in (a) of this condition and reports required by conditions in Section D of this permit shall be submitted to:

Indiana Department of Environmental Management
Compliance Data Section, Office of Air Quality
100 North Senate Avenue, P. O. Box 6015
Indianapolis, Indiana 46206-6015

(c) Unless otherwise specified in this permit, any notice, report, or other submission required by this permit shall be considered timely if the date postmarked on the envelope or certified mail receipt, or affixed by the shipper on the private shipping receipt, is on or before the date it is due. If the document is submitted by any other means, it shall be considered timely if received by IDEM, OAQ, on or before the date it is due.

(d) Unless otherwise specified in this permit, all reports required in Section D of this permit shall be submitted within thirty (30) days of the end of the reporting period. All reports do require the certification by the "responsible official" as defined by 326 IAC 2-7-1(34).

(e) The first report shall cover the period commencing on the date of issuance of this permit and ending on the last day of the reporting period. Reporting periods are based on calendar years.

Stratospheric Ozone Protection

C.21 Compliance with 40 CFR 82 and 326 IAC 22-1

Pursuant to 40 CFR 82 (Protection of Stratospheric Ozone), Subpart F, except as provided for motor vehicle air conditioners in Subpart B, the Permittee shall comply with the standards for recycling and emissions reduction:

(a) Persons opening appliances for maintenance, service, repair, or disposal must comply with the required practices pursuant to 40 CFR 82.156.

(b) Equipment used during the maintenance, service, repair, or disposal of appliances must comply with the standards for recycling and recovery equipment pursuant to 40 CFR 82.158.

(c) Persons performing maintenance, service, repair, or disposal of appliances must be certified by an approved technician certification program pursuant to 40 CFR 82.161.

(d) Pursuant to 40 CFR 82, Subpart E (The Labeling of Products Using Ozone-Depleting Substances), all containers in which a Class I or Class II substance is stored or transported and all products containing a Class I substance shall be labeled as required under 40 CFR Part 82.

SECTION D.1 FACILITY OPERATION CONDITIONS

Facility Description [326 IAC 2-7-5(15)] (The information describing the process contained in this facility description box is descriptive information and does not constitute enforceable conditions.)

(1) One (1) spreader stoker coal-fired boiler (unit 5), constructed in 1955, rated at 200 million Btu per hour heat input, used to generate electricity. Particulate emissions are controlled by an electrostatic precipitator, opacity is measured with a continuous opacity monitor. Controlled emissions are exhausted to the atmosphere through a 150 foot (above grade) stack having a 72 inch exit diameter.

(2) One (1) spreader stoker coal-fired boiler (unit 6), constructed in 1962, rated at 300 million Btu per hour heat input, used to generate electricity. Particulate emissions are controlled by an electrostatic precipitator, opacity is measured with a continuous opacity monitor. Controlled emissions are exhausted to the atmosphere through a 150 foot (above grade) stack having an 84 inch exit diameter.

Emission Limitations and Standards [326 IAC 2-7-5(1)]

D.1.1 Particulate Matter (PM) [326 IAC 6-2-3]

Pursuant to 326 IAC 6-2-3(a) (Particulate Matter Emissions for Sources of Indirect Heating), the particulate matter emissions from Unit 5 and Unit 6 shall in no case exceed 0.51 lb/mmBtu heat input. This limitation was calculated using the following equation:

$$Pt = \frac{(C)\,(a)\,(h)}{76.5\ (Q^{0.75})\ (N^{0.25})}$$

Where C = 50 F/m^3
Q = total source capacity (mmBtu/hr)
500
N = number of stacks
a = 0.67
h = average stack height (feet)
Pt = pounds of particulate matter emitted per million Btu heat input (lb/mmBtu)

D.1.2 Temporary Alternative Opacity Limitations [326 IAC 5-1-3]

(a) Pursuant to 326 IAC 5-1-3 (Temporary Alternative Opacity Limitations), the following applies:

(1) When building a new fire in a boiler, or shutting down a boiler, opacity may exceed the applicable limit established in 326 IAC 5-1-2 and stated in Section C - Opacity. However, opacity levels shall not exceed sixty percent (60%) for any six (6)-minute averaging period. Opacity in excess of the applicable limit established in 326 IAC 5-1-2 shall not continue for more than two (2) six (6)-minute averaging periods in any twenty-four (24) hour period. [326 IAC 5-1-3(a)]

(2) When removing ashes from the fuel bed or furnace in a boiler or blowing tubes, opacity may exceed the applicable limit established in 326 IAC 5-1-2 and stated in Section C - Opacity. However, opacity levels shall not exceed sixty percent (60%) for any six (6)-minute averaging period and opacity in excess of the applicable limit shall not continue for more than one (1) six (6)-minute averaging periods in any sixty (60) minute period. The averaging periods shall not be permitted for more than three (3) six (6)-minute averaging periods in a twelve (12) hour period. [326 IAC 5-1-3(b)]

(3) Operation of the electrostatic precipitator is not required during these times unless necessary to comply with these limits.

(b) If this facility cannot meet the opacity limitations in (a)(1) and (a)(2) of this condition, the Permittee may submit a written request to IDEM, OAQ, for a temporary alternative opacity limitation in accordance with 326 IAC 5-1-3(d). The Permittee must demonstrate that the alternative limit is needed and justifiable.

D.1.3 Sulfur Dioxide Emissions Limitations [326 IAC 7-1.1-2]

Pursuant to 326 IAC 7-1.1-2 (Sulfur Dioxide Emission Limitations), the SO_2 emissions from either Unit 5 or Unit 6 shall not exceed 6.0 pounds per million Btu (lbs/mmBtu).

D.1.4 Operation Standards [326 IAC 2-1.1-5(a)(4)] [40 CFR 261] [329 IAC 13]

(a) All coal burned, including coal treated with any additive, shall meet the ASTM definition of coal.

(b) The burning of hazardous waste, as defined by 40 CFR 261, is prohibited in this facility. Any boiler tube chemical cleaning waste liquids, binding agent, or used oil combusted shall meet the toxicity characteristic requirements for non-hazardous waste.

(c) Any boiler tube chemical cleaning waste liquids fired in the boiler shall only contain the cleaning solution and two full volume boiler rinses.

D.1.5 Preventive Maintenance Plan [326 IAC 2-7-5(13)]

A Preventive Maintenance Plan, in accordance with Section B - Preventive Maintenance Plan, of this permit, is required for this facility and any control devices.

Compliance Determination Requirements

D.1.6 Testing Requirements [326 IAC 2-7-6(1), (6)] [326 IAC 2-1.1-11]

Within a two (2) year period from the most recent stack test, compliance with the PM limitation in Condition D.1.1 shall be determined by a performance stack test utilizing methods as approved by the Comissioner. This test shall be repeated at least once every two (2) years from the date of this valid compliance demonstration. Testing shall be conducted in accordance with Section C - Performance Testing.

D.1.7 Sulfur Dioxide Emissions and Sulfur Content [326 IAC 2-7-5(A)] [326 IAC 2-7-6]

Pursuant to 326 IAC 7-2, the Permittee shall demonstrate that the sulfur dioxide emissions do not exceed six (6.0) pounds per MMBtu. Compliance shall be determined utilizing one of the following options:

(a) Coal sampling and analysis shall be performed using one of the following procedures:

(1) Minimum Coal Sampling Requirements and Analysis Methods [326 IAC 3-7-2]:

(A) The coal sample acquisition point shall be at a location where representative samples of the total coal flow to be combusted by the facility or facilities may be obtained. A single as-bunkered or as-burned sampling station may be used to represent the coal to be combusted by multiple facilities using the same stockpile feed system;

(B) Coal shall be sampled at least three (3) times per day and at least one (1) time per eight (8) hour period unless no coal is bunkered during the preceding eight (8) hour period;

(C) Minimum sample size shall be five hundred (500) grams;

(D) Samples shall be composited and analyzed at the end of each calendar month;

(E) Preparation of the coal sample, heat content analysis, and sulfur content analysis shall be determined pursuant to 326 IAC 3-7-2(c), (d) and (e).

(2) Sample the coal pursuant to 326 IAC 3-7-2(a). Preparation of the coal sample, heat content analysis, and sulfur content analysis shall be determined pursuant to 326 IAC 3-7-2(c), (d) and (e);

(3) Sample and analyze the coal pursuant to 236 IAC 3-7-3; or

(b) Compliance may also be determined by conducting a stack test for sulfur dioxide emissions from the boiler in accordance with 326 IAC 3-6, utilizing the procedures in 40 CFR 60, Appendix A, Method 6, 6A, 6C, or 8. [326 IAC 7-2-1(d)]

A determination of noncompliance pursuant to either of the methods specified in (a) or (b) above shall not be refuted by evidence of compliance pursuant to the other method.

(c) Upon written notification to IDEM by a facility owner or operator, continuous emission monitoring data collected and reported pursuant to 326 IAC 3-5-1 may be used as the means for determining compliance with the emission limitations in 326 IAC 7-2. Upon such notification, the other requirements of 326 IAC 7-2 shall not apply. [326 IAC 7-2-1(g)]

D.1.8 Operation of Electrostatic Precipitator [326 IAC 2-7-6(6)]

Except as otherwise provided by statute or rule or in this permit, the electrostatic precipitators shall be operated at all times that units 5 and 6 are in operation.

D.1.9 Cleaning Waste Analysis [326 IAC 2-1.1-5(a)(4)] [40 CFR 261]

The Permittee shall use appropriate test methods as listed in 40 CFR Part 261 to analyze all boiler chemical cleaning wastes that will be burned, to determine compliance with the Operation Standards condition in this D section.

Compliance Monitoring Requirements [326 IAC 2-7-6(1)] [326 IAC 2-7-5(1)]

D.1.10 Transformer-Rectifier (T-R) Sets [326 IAC 2-7-6(1)] [326 IAC 2-7-5(1)]

(a) The ability of the ESP to control particulate emissions shall be monitored once per shift, when the unit is in operation, by measuring and recording the number of T-R sets in service and the primary and secondary voltages and the currents of the transformer-rectifier (T-R) sets.

(b) Reasonable response steps shall be taken in accordance with Section C - Compliance Response Plan - Preparation, Implementation, Records and Reports whenever the percentage of T-R sets in service falls below 90 percent. T-R set failure resulting in less than 90 percent availability is not a deviation from this permit. Failure to taken response steps in accordance with Section C - Compliance Response Plan - Preparation, Implementation, Records, and Reports, shall be considered a violation of this permit.

D.1.11 Opacity Readings [326 IAC 2-7-6(1)] [326 IAC 2-7-5(1)]

(a) Appropriate response steps shall be taken in accordance with Section C - Compliance Response Plan - Preparation, Implementation, Records, and Reports whenever the opacity exceeds 20 percent for three (3) consecutive six (6) minute averaging periods. In the event of opacity exceeding 20 percent, response steps will be taken such that the cause(s) of the excursion are identified and corrected and opacity levels are brought back below 20 percent. Examples of expected response steps include, but are not limited to, boiler loads being reduced and ESP T-R sets being returned to service.

(b) Opacity readings in excess of 20 percent but not exceeding the opacity limit for the unit are not a deviation from this permit. Failure to take response steps in accordance with Section C - Compliance Response Plan - Preparation, Implementation, Records, and Reports, shall be considered a violation of this permit.

D.1.12 Preventive Inspections: Electrostatic Precipitator [326 IAC 2-7-6(1)] [326 IAC 2-7-5(1)]

(a) The following inspections shall be performed according to the indicated schedules, in accordance with the Preventive Maintenance Plan prepared in accordance with Section B - Preventive Maintenance Plan:

(1) Plate and electrode alignment, every major maintenance outage, but no less than every 2 years;
(2) ESP TR set components, performed whenever there is an outage of any nature lasting more than three days, unless such inspections have been performed within the last six months. At a minimum, the following inspections shall be performed:
    (A) Internal inspection of shell for corrosion (i.e., doors, hatches, insulator housing, roof area).
    (B) Effectiveness of rapping (i.e., buildup of dust on discharge electrodes and plates).
    (C) Gas Distribution (i.e., buildup of dust on distribution plates and turning vanes).
    (D) Dust accumulation (i.e., buildup of dust on shell and support members that could result in grounds or promote advanced corrosion.)
    (E) Major misalignment of plates (i.e., visual checks of plate alignment).
    (F) Rapper, vibrator and TR set control cabinets (motors, lubrication, etc.)
    (G) Rapper assembly (i.e., loose bolts, ground wires, water in air lines, solenoids, etc.)
    (H) Vibrator and rapper seals (i.e., air in-leakage, wear, deterioration)
    (I) TR set controllers (i.e., low voltage trip point, over current trip, spark rate, etc.)
    (J) Vibrator air pressure settings
(3) Air and water infiltration, once/month. The recommended method for this inspection is for audible checks around ash hoppers/hatches, duct expansion joints, and areas of corrosion.

(b) Reasonable response steps shall be taken in accordance with Section C - Compliance Response Plan - Preparation, Implementation, Records, and Reports for any improper or abnormal conditions found during an inspection. Discovery of an abnormal or improper condition is not a deviation from this permit. Failure to take response steps in accordance with Section C - Compliance Response Plan - Preparation, Implementation, Records, and Reports, shall be considered a violation of this permit.

Record Keeping and Reporting Requirements [326 IAC 2-7-5(3)] [326 IAC 2-7-19]

D.1.13 Record Keeping Requirements

(a) To document compliance with Condition D.1.3 and D.1.7, the Permittee shall maintain records in accordance with (1) through (4) below. Records maintained for (1) and (4) shall be sufficient to demonstrate compliance using a thirty (30) day rolling weighted average and shall be complete and sufficient to establish compliance with the SO_2 limit established in D.1.3.

(1) Calendar dates covered in the compliance determination period;

(2) Actual coal usage since last compliance determination period;

(3) Sulfur content and heat content;

(4) Sulfur dioxide emission rates.

(b) Pursuant to 326 IAC 3-7-5(a), the Permittee shall develop a standard operating procedure (SOP) to be followed for sampling, handling, analysis, quality control, quality assurance, and data reporting of the information collected pursuant to 326 IAC 3-7-2 through 326 IAC 3-7-4. In addition, any revision to the SOP shall be submitted to IDEM, OAQ.

(c) To document compliance with Conditions D.1.1, D.1.2, D.1.4, D.1.5, D.1.6, D.1.8, D.1.9, D.1.10 and D.1.11, the Permittee shall maintain records in accordance with (1) through (6) below. Records shall be complete and sufficient to establish compliance with the limits established in Section C - Opacity and in Conditions D.1.1 and D.1.2.

(1) Data and results from the most recent stack test;

(2) All continuous emissions monitoring data, pursuant to 326 IAC 3-5;

(3) All parametric monitoring readings;

(4) Records of the results of the ESP inspections;

(5) All preventive maintenance measures taken; and

(6) All response steps and the outcome for each.

(d) All records shall be maintained in accordance with Section C - General Record Keeping Requirements, of this permit.

D.1.14 Reporting Requirements

A quarterly summary of the information to document compliance with Condition D.1.3 shall be submitted to the addresses listed in Section C - general Reporting Requirements, of this permit, using the reporting forms located at the end of this permit, or their equivalent, within thirty (30) days after the end of the quarter being reported. The report submitted by the Permittee does require the certification by the “responsible official” as defined by 326 IAC 2-7-1(34).

SECTION D.2 FACILITY OPERATION CONDITIONS

Facility Description [326 IAC 2-7-5(15)] (The information describing the process contained in this facility description box is descriptive information and does not constitute enforceable conditions.)

One (1) ash handling system, with a maximum throughput of 21,000 tons of ash per year consisting of the following:

One (1) storage silo with a storage capacity of 6,233 ft^3. Mechanical blowers pneumatically convey bottom ash and fly ash. Ash is loaded from bottom of silo through a chute to trucks for offsite disposal. A baghouse is used to control particulate emissions and wet suppression is used to control emissions from the truck loading.

Emission Limitations and Standards [326 IAC 2-7-5(1)]

D.2.1 Particulate Matter (PM) [326 IAC 6-3-2]

Pursuant to 326 IAC 6-3-2, the allowable PM emission rate from the coal conveying and unloading processes shall not exceed 7.4 pounds per hour when operating at a process weight rate of 2.4 tons per hour.

The pounds per hour limitation was calculated using the following equation:

Interpolation of the data for the process weight rate up to sixty thousand (60,000) pounds per hour shall be accomplished by use of the equation:

$E = 4.10\ P^{0.67}$ where E = rate of emission in pounds per hour and
P = process weight rate in tons per hour

D.2.2 Fugitive Dust Emissions [326 IAC 6-4]

Pursuant to 326 IAC 6-4 (Fugitive Dust Emissions), the Permittee shall not allow fugitive dust to escape beyond the property line or boundaries of the property, right-of-way, or easment on which the source is located.

D.2.3 Preventive Maintenance Plan [326 IAC 2-7-5(13)]

A Preventive Maintenance Plan, in accordance with Section B - Preventive Maintenance Plan, of this permit, is required for this facility and its control device.

Compliance Determination Requirements

D.2.4 Particulate Matter (PM)

The baghouse for PM control shall be in operation at all times when the ash handling operations are in operation and exhausting to the outside atmosphere.

Compliance Monitoring Requirements [326 IAC 2-7-6(1)] [326 IAC 2-7-5(1)]

D.2.5 Visible Emissions Notations [326 IAC 2-7-6(1)] [326 IAC 2-7-5(1)]

(a) Visible emission notations of the baghouse stack exhaust shall be performed once per shift during normal daylight operations when exhausting to the atmosphere. A trained employee shall record whether emissions are normal or abnormal.

(b) For processes operated continuously, “normal” means those conditions prevailing, or expected to prevail, eighty percent (80%) of the time the process is in operation, not counting startup or shut down time.

(c) In the case of batch or discontinuous operations, readings shall be taken during that part of the operation that would normally be expected to cause the greatest emissions.

(d) A trained employee is an employee who has worked at the plant at least one (1) month and has been trained in the appearance and characteristics of normal visible emissions for that specific process.

(e) The Compliance Response Plan for this unit shall contain troubleshooting contingency and response steps for when an abnormal emission is observed. Failure to take response steps in accordance with Section C - Compliance Response Plan - Preparation, Implementation, Records and Reports shall be considered a violation of this permit.

D.2.6 Baghouse Inspections [326 IAC 2-7-6(1)] [326 IAC 2-7-5(1)]

(a) An inspection shall be performed each calender quarter of all bags controlling PM emissions from the ash handling operation when venting to the atmosphere. A baghouse inspection shall be performed within three months of redirecting vents to the atmosphere and every three months thereafter. Inspections are optional when venting to the indoors. All defective bags shall be replaced.

(b) If an abnormal or improper condition is found during an inspection, the Permittee shall take reasonable response steps in accordance with Section C - Compliance Response Plan - Preparation, Implementation, Records, and Reports. Discovery of an abnormal or improper condition is not a deviation from this permit. Failure to take response steps in accordance with Section C - Compliance Response Plan - Preparation, Implementation, Records, and Reports, shall be considered a violation of this permit.

D.2.7 Broken or Failed Bag Detection [326 IAC 2-7-6(1)] [326 IAC 2-7-5(1)]

In the event that bag failure has been observed:

(a) For multi-compartment units, the affected compartments will be shut down immediately until the failed units have been repaired or replaced. Operations may continue only if there are no visible emissions or if the event qualifies as an emergency and the Permittee satisfies the emergency provisions of this permit (Section B - Emergency Provisions). Within eight (8) hours of the determination of failure, response steps according to the timetable described in the Compliance Reponse Plan shall be initiated. For failure with corresponding response steps and timetable not described in the Compliance Response Plan, response steps shall be devised within eight (8) hours of discovery of the failure and shall include a timetable for completion. Failure to take response steps in accordance with Section C - Compliance Response Plan - Preparation, Implementation, Records, and Reports, shall be considered a violation of this permit.

(b) For single compartment baghouses, failed units and the associated process will be shut down immediately until the failed units have been repaired or replaced. Operations may continue only if the event qualifies as an emergency and the Permittee satisfies the requirements of the emergency provisions of this permit (Section B - Emergency Provisions).

D.2.8 Baghouse Parametric Monitoring [326 IAC 2-7-6(1)] [326 IAC 2-7-5(1)]

(a) The Permittee shall record the total static pressure drop across the baghouse used in conjunction with the ash handling at least once per shift when the ash handling is in operation when venting to the atmosphere. When for any one reading, the pressure drop across the baghouse is outside the normal range of 3.0 and 6.0 inches of water or a range established during the latest stack test, the Permittee shall take reasonable

response steps in accordance with Section C - Compliance Response Plan - Preparation, Implementation, Records, and Reports. A pressure reading that is outside above mentioned range is not a deviation from this permit. Failure to take response steps in accordance with Section C - Compliance Response Plan - Preparation, Implementation, Records, and Reports, shall be considered a violation of this permit.

(b) The instrument used for determining the pressure shall comply with Section C - Pressure Gauge and Other Instrument Specifications, and shall be calibrated at least once every six (6) months.

Record Keeping and Reporting Requirement [326 IAC 2-7-5(3)] [326 IAC 2-7-19]

D.2.9 Record Keeping Requirements

(a) To document compliance with Condition D.2.5, the Permittee shall maintain records of visible emission notations of the baghouse stack exhaust once per shift.

(b) To document compliance with Condition D.2.1, the Permittee shall maintain records of the results of the inspections required under Condition D.2.6 and the dates the vents are redirected.

(c) To document compliance with Condition D.2.8, the Permittee shall maintain records of the total static pressure drop across the baghouse used in conjunction with the ash handling at least once per shift.

(d) All records shall be maintained in accordance with Section C - General Record Keeping Requirements, of this permit.

SECTION D.3 FACILITY CONDITIONS

Facility Description [326 IAC 2-7-5(15)] (The information describing the process contained in this facility description box is descriptive information and does not constitute enforceable conditions.)

One (1) natural gas-fired turbine generator, constructed in 1969, identified as TG6, rated at 75 million Btu per hour (17,900 kW).

D.3.1 General Provisions Relating to NSPS [326 IAC 12-1] [CFR Part 60, Subpart A]

The provisions of 40 CFR 60 , Subpart A - General Provisions, which are incorporated by reference in 326 IAC 12-1, apply to the facility described in this section except when otherwise specified in 40 CFR 60, Subpart GG (Standards of Performance for Stationary Gas Turbines).

D.3.2 New Source Performance Standard [326 IAC 12-1] [40 CFR 60, Subpart GG]

Pursuant to 40 CFR 60, Subpart GG (Standards of Performance for Stationary Gas Turbines), the Permittee shall limit sulfur dioxide emissions, as required by 40 CFR 60.333, to 0.015 percent by volume at 15 percent oxygen on a dry basis, or use natural gas fuel with a sulfur content less than or equal to 0.8 percent by weight.

D.3.3 Preventive Maintenance Plan [326 IAC 2-7-5(13)]

A Preventive Maintenance Plan, in accordance with Section B - Preventive Maintenance Plan, of this permit, is required for this facility and any control devices.

Compliance Determination Requirements

D.3.4 Continuous Emissions Monitoring [326 IAC 3-5] [326 IAC 12] [40 CFR 60, Subpart GG]

Pursuant to 326 IAC 3-5 (Continuous Monitoring of Emissions) and 40 CFR 60, Subpart GG, a continuous monitoring system shall be calibrated, maintained, an operated to monitor and record the fuel consumption and the ratio of water to fuel being fired in the turbine, as required by 40 CFR 60.334(a).

Compliance Monitoring Requirements [326 IAC 2-7-6(1)] [326 IAC 2-7-5(1)] [40 CFR 60, Subpart GG]

D.3.5 Sulfur Content and Nitrogen Content [326 IAC 12] [40 CFR 60, Subpart GG]

Pursuant to 40 CFR 60, Subpart GG, the Permittee shall monitor the nitrogen and sulfur content of the fuel being fired in the turbine. The frequency of determination of these values shall be as follows:

(a) If the turbine is supplied its fuel from a bulk storage tank, the values shall be determined on each occasion that fuel is transferred to the storage tank from any other source.

(b) If the turbine is supplied its fuel without intermediate bulk storage the values shall be determined and recorded daily. Owners, operators or fuel vendors may develop custom schedules for determination of the values based on the design and operation of the affected facility and the characteristics of the fuel supply. These custom schedules shall be substantiated with data and must be approved by the administrator before they can be used to comply with the monitoring requirements.

The sulfur content information obtained from this monitoring shall be used to document compliance with the limits stated in Condition D.3.2.

Record Keeping and Reporting Requirements [326 IAC 2-7-5(3)] [326 IAC 2-7-19][40 CFR 60, Subpart GG]

D.3.6 Record Keeping Requirements

(a) To document compliance with Conditions D.3.5 the Permittee shall maintain records in accordance with (1) through (2) below. Records maintained for (2) shall be taken according to Condition D.3.5 and shall be complete and sufficient to establish compliance with the sulfur content limits established in Condition D.3.2.

(1) All continuous emissions monitoring data; and

(2) All fuel nitrogen content and sulfur content monitoring data.

(b) All records shall be maintained in accordance with Section C - General Record Keeping Requirements, of this permit.

SECTION D.4 FACILITY OPERATION CONDITIONS

Facility Description [326 IAC 2-7-5(15)] Insignificant Activities: (The information describing the process contained in this facility description box is descriptive information and does not constitute enforceable conditions.)

(1) Degreasing operations that do not exceed 145 gallons per 12 months.
(2) Coal bunker and coal scale exhausts and associated dust collector vents.
(3) Outside handling of coal: PM emissions less than 5 lb/hour or 25 lb/day.
(4) Other coal handling and conveying: PM emissions less than 5 lb/hour or 25 lb/day.
(5) Coal storage piles: PM emissions less than 5 lb/hour or 25 lb/day.

Emission Limitations and Standards [326 IAC 2-7-5(1)]

D.4.1 Particulate Matter (PM) [326 IAC 6-3-2]

Pursuant to 326 IAC 6-3-2 (Process Operations), the particulate matter (PM) from the coal storage and handling shall not exceed an amount determined by the following equation:

Interpolation of the data for the process weight rate up to 60,000 pounds per hour shall be accomplished by use of the equation:

$E = 4.10P^{0.67}$ where E = rate of emission in pounds per hour;
And P = process weight rate in tons per hour

D.4.2 Volatile Organic Compounds (VOC)

Pursuant to 326 IAC 8-3-2 (Cold Cleaner Operations) for cold cleaning operations constructed after January 1, 1980, the owner or operator shall:

(a) Equip the cleaner with a cover;

(b) Equip the cleaner with a facility for draining cleaned parts;

(c) Close the degreaser cover whenever parts are not being handled in the cleaner;

(d) Drain cleaned parts for at least fifteen (15) seconds or until dripping ceases;

(e) Provide a permanent, conspicuous label summarizing the operation requirements;

(f) Store waste solvent only in covered containers and not dispose of waste solvent or transfer it to another party, in such a manner that greater than twenty percent (20%) of the waste solvent (by weight) can evaporate into the atmosphere.

INDIANA DEPARTMENT OF ENVIRONMENTAL MANAGEMENT
OFFICE OF AIR QUALITY

PART 70 OPERATING PERMIT
CERTIFICATION

Source Name: Logansport Municipal Utilities
Source Address: 8th and Race Streets, Logansport, Indiana 45947
Mailing Address: City Building, 601 East Broadway #101, Logansport, IN 46947
Part 70 Permit No.: T017-7478-00006

This certification shall be included when submitting monitoring, testing reports/results or other documents as required by this permit.

Please check what document is being certified:

9 Annual Compliance Certification Letter

9 Test Result (specify) _____

9 Report (specify) _____

9 Notification (specify) _____

9 Affidavit (specify) _____

9 Other (specify) _____

I certify that, based on information and belief formed after reasonable inquiry, the statements and information in the document are true, accurate, and complete. Signature:
Printed Name:
Telephone Number:
Title/Position:
Date:

INDIANA DEPARTMENT OF ENVIRONMENTAL MANAGEMENT
OFFICE OF AIR QUALITY
COMPLIANCE DATA SECTION
P.O. Box 6015
100 North Senate Avenue
Indianapolis, Indiana 46206-6015
Phone: 317-233-5674
Fax: 317-233-5967

PART 70 OPERATING PERMIT
EMERGENCY OCCURRENCE REPORT

Source Name: Logansport Municipal Utilities
Source Address: 8th and Race Streets, Logansport, Indiana 45947
Mailing Address: City Building, 601 East Broadway #101, Logansport, IN 46947
Part 70 Permit No.: T017-7478-00006

This form consists of 2 pages **Page 1 of 2**

9 This is an emergency as defined in 326 IAC 2-7-1(12)
- C The Permittee must notify the Office of Air Quality (OAQ), within four (**4**) business hours (1-800-451-6027 or 317-233-5674, ask for Compliance Section); and
- C The Permittee must submit notice in writing or by facsimile within two (**2**) days (Facsimile Number: 317-233-5967), and follow the other requirements of 326 IAC 2-7-16.

If any of the following are not applicable, mark N/A

Facility/Equipment/Operation:
Control Equipment:
Permit Condition or Operation Limitation in Permit:
Description of the Emergency:
Describe the cause of the Emergency:

If any of the following are not applicable, mark N/A **Page 2 of 2**

Date/Time Emergency started:
Date/Time Emergency was corrected:
Was the facility being properly operated at the time of the emergency? Y N Describe:
Type of Pollutants Emitted: TSP, PM-10, SO_2, VOC, NO_X, CO, Pb, other:
Estimated amount of pollutant(s) emitted during emergency:
Describe the steps taken to mitigate the problem:
Describe the corrective actions/response steps taken:
Describe the measures taken to minimize emissions:
If applicable, describe the reasons why continued operation of the facilities are necessary to prevent imminent injury to persons, severe damage to equipment, substantial loss of capital investment, or loss of product or raw materials of substantial economic value:

Form Completed by: _____

Title / Position: _____

Date: _____

Telephone: _____

A certification is not required for this report.

INDIANA DEPARTMENT OF ENVIRONMENTAL MANAGEMENT
OFFICE OF AIR QUALITY
COMPLIANCE DATA SECTION

PART 70 OPERATING PERMIT
QUARTERLY DEVIATION AND COMPLIANCE MONITORING REPORT

Source Name: Logansport Municipal Utilities
Source Address: 8th and Race Streets, Logansport, Indiana 46947
Mailing Address: City Building, 601 East Broadway #101, Logansport, IN 46947
Part 70 Permit No.: T017-7478-00006

Months: _____ to _____ Year: _____

This report shall be submitted quarterly based on a calendar year. Any deviation from the requirements, the date(s) of each deviation, the probable cause of the deviation, and the response steps taken must be reported. Deviations that are required to be reported by an applicable requirement shall be reported according to the schedule stated in the applicable requirement and do not need to be included in this report. Additional pages may be attached if necessary. If no deviations occurred, please specify in the box marked "No deviations occurred this reporting period".

9 NO DEVIATIONS OCCURRED THIS REPORTING PERIOD.

9 THE FOLLOWING DEVIATIONS OCCURRED THIS REPORTING PERIOD

Permit Requirement (specify permit condition #)	
Date of Deviation:	**Duration of Deviation:**
Number of Deviations:	
Probable Cause of Deviation:	
Response Steps Taken:	

Permit Requirement (specify permit condition #)	
Date of Deviation:	**Duration of Deviation:**
Number of Deviations:	
Probable Cause of Deviation:	
Response Steps Taken:	

Page 2 of 2

Permit Requirement (specify permit condition #)	
Date of Deviation:	**Duration of Deviation:**
Number of Deviations:	
Probable Cause of Deviation:	
Response Steps Taken:	

Permit Requirement (specify permit condition #)	
Date of Deviation:	**Duration of Deviation:**
Number of Deviations:	
Probable Cause of Deviation:	
Response Steps Taken:	

Permit Requirement (specify permit condition #)	
Date of Deviation:	**Duration of Deviation:**
Number of Deviations:	
Probable Cause of Deviation:	
Response Steps Taken:	

Form Completed By: ______________________________
Title/Position: ______________________________
Date: ______________________________
Telephone: ______________________________

Attach a signed certification to complete this report.

INDIANA DEPARTMENT OF ENVIRONMENTAL MANAGEMENT
OFFICE OF AIR QUALITY
COMPLIANCE DATA SECTION

Part 70 Quarterly Report

Source Name: Logansport Municipal Utilities
Source Address: 8th and Race Streets, Logansport, Indiana 45947
Mailing Address: City Building, 601 East Broadway #101, Logansport, Indiana 46947
Part 70 Permit No.: T017-7478-00006
Facility: Unit 5 and Unit 6
Parameter: SO_2 Emission Rate
Limit: SO_2 emissions from either Unit 5 or Unit 6 shall not exceed 6.0 pounds per million Btu (lbs/mmBtu)

YEAR: _____

Month	Column 1	Column 2	Column 3	Column 4	Column 5
	Coal Consumption	Sulfur Content	Coal Heat Content	Ash Content	SO_2 Emission Rate
Month 1					
Month 2					
Month 3					

9**No deviation occurred in this quarter.**

9**Deviation/s occurred in this quarter.**

Deviation has been reported on: _____

Submitted by: _____

Title / Position: _____

Signature: _____

Date: _____

Telephone: _____

Attach a signed certification to complete this report.

Indiana Department of Environmental Management
Office of Air Quality

Addendum to the
Technical Support Document for a Part 70 Operating Permit

Source Name: Logansport Municipal Utilities
Source Location: 8th and Race Streets
County: Cass
SIC Code: 4911
Operation Permit No.: T017-7478-00006
Permit Reviewer: Laura M. Groom

On January 6, 2002, the Office of Air Quality (OAQ) had a notice published in the The Pharos Tribune, Logansport, Indiana, stating that Logansport Municipal Utilities had applied for a Part 70 Operating Permit to operate an electric generating station. The notice also stated that OAQ proposed to issue a permit for this operation and provided information on how the public could review the proposed permit and other documentation. Finally, the notice informed interested parties that there was a period of thirty (30) days to provide comments on whether or not this permit should be issued as proposed.

On February 6th, 2002 Logansport Municipal Utilities submitted comments on the proposed Title V. The summary of the comments is as follows:

Comment #1: Page #1 (cover page) of the draft permit seems to indicate that our Operation Permit No: is T017-7478-00006, however, each subsequent page of the permit (2-42) in the upper right corner have what appears to be a different OP No: T107-7478-00006. We would like to request that IDEM clarify which is the correct Operation Permit No. for Logansport Municipal Utilities.

Response #1: The permit has been changed to indicate the correct permit number which is T017-7478-00006.

Comment #2: Page #5 A.1 identifies the Responsible Official as Mr. A.J. Pyatsky, P.E., DEE. as Mr. Pyatsky is no longer employed by the Utilities we would like to request to change the person identified as the Responsible Official to Greg Wengert, Chief Engineer.

Response #2: A.1 has been revised as follows to change the responsible official. I called the Source regarding the definition of the responsible official and it was decided that the Superintendent of Utilities would be the appropriate person.

A.1 General Information [326 IAC 2-7-4(c)] [326 IAC 2-7-5(15)] [326 IAC 2-7-1(21)]

The Permittee owns and operates a stationary electric utility generating station.

Responsible Official: ~~Mr. A. J. Pyatsky, P.E., DEE~~
K.W. Hemberger, Superintendent of Utilities

Comment #3: Page #5 A.2 (1) this paragraph for Unit 5 states that the "controlled emissions are exhausted to the atmosphere through a 125 (above grade) stack this should be changed to reflect the actual above grade height of 150 feet.

Response #3: The height of the stacks are being changed as follows to accurately reflect the true height of the stacks.

A.2 Emission Units and Pollution Control Equipment Summary [326 IAC 2-7-4(c)(3)] [326 IAC 2-7-5(15)]

This stationary source consists of the following emission units and pollution control devices:

(1) One (1) spreader stoker coal-fired boiler (unit 5), constructed in 1955, rated at 200 million Btu per hour heat input, used to generate electricity. Particulate emissions are controlled by an electrostatic precipitator, opacity is measured with a continuous opacity monitor. Controlled emissions are exhausted to the atmosphere through a ~~125~~ **150** foot (above grade) stack having a 72 inch exit diameter.

(2) One (1) spreader stoker coal-fired boiler (unit 6), constructed in 1962, rated at 300 million Btu per hour heat input, used to generate electricity. Particulate emissions are controlled by an electrostatic precipitator, opacity is measured with a continuous opacity monitor. Controlled emissions are exhausted to the atmosphere through a ~~125~~ **150** foot (above grade) stack having an ~~80~~ **84** inch exit diameter.

Comment #4: Page #5 A.2(2) this paragraph for Unit 6 states that the "controlled emissions are exhausted to the atmosphere through a 125 foot (above grade) stack having an 80 inch exit diameter. This should be changed to reflect the actual above grade height of 150 feet and exit diameter of 84 inches.

Response #4: The stack height has been changed accordingly. Please see the Response to Comment #3 for a detailed explanation.

Comment #5: Page #27 D.1(1) this paragraph for Unit 5 states that the "controlled emissions are exhausted to the atmosphere through a 125 foot (above grade) stack this should be changed to reflect the actual above grade height of 150 feet.

Response #5: The facility description box for Section D.1.1 has been revised to reflect the new stack heights. The D.1.1 Particulate Matter (PM) condition has been changed to update the particulate matter limit for Unit 5 and Unit 6. The limit has been changed because the stack height changed. Also, the value for (a) was corrected to 0.67 pursuant to 6-2-3(a).

Facility Description [326 IAC 2-7-5(15)] (The information describing the process contained in this facility description box is descriptive information and does not constitute enforceable conditions.)

1. One (1) spreader stoker coal-fired boiler (unit 5), constructed in 1955, rated at 200 million Btu per hour heat input, used to generate electricity. Particulate emissions are controlled by an electrostatic precipitator, opacity is measured with a continuous opacity monitor. Controlled emissions are exhausted to the atmosphere through a ~~125~~ **150** foot (above grade) stack having a 72 inch exit diameter.

2. One (1) spreader stoker coal-fired boiler (unit 6), constructed in 1962, rated at 300 million Btu per hour heat input, used to generate electricity. Particulate emissions are controlled by an electrostatic precipitator, opacity is measured with a continuous opacity monitor. Controlled emissions are exhausted to the atmosphere through a ~~125~~ **150** foot (above grade) stack having an ~~80~~ 84 inch exit diameter.

D.1.1 Particulate Matter (PM) [326 IAC 6-2-3]

Pursuant to 326 IAC 6-2-3(a) (Particulate Matter Emissions for Sources of Indirect Heating), the particulate matter emissions from Unit 5 and Unit 6 shall in no case exceed ~~0.42~~ **0.51**lb/mmBtu heat input. This limitation was calculated using the following equation:

$$Pt = \frac{(C)\,(a)\,(h)}{76.5\ (Q^{0.75})\ (N^{0.25})}$$

Where C = 50 F/m^3
Q = total source capacity (mmBtu/hr)
500
N = number of stacks
a = ~~0.8~~ **0.67**
h = average stack height (feet)
Pt = pounds of particulate matter emitted per million Btu heat input (lb/mmBtu)

Comment #6: Page #27 D.1(2) this paragraph for Unit 6 states that the "controlled emissions are exhausted to the atmosphere through a 125 foot (above grade) stack this should be changed to reflect the actual above grade height of 150 feet and exit diameter of 84 inches.

Response #6: Please see the Responses to Comment #5 to see the changes that have been made to the permit, per this comment.

Comment #7: Page #28 D.1.6 Testing Requirements - On April 23, 1997 Logansport Municipal Utilities received a letter of reply from IDEM regarding our request for less frequent stack testing for our boiler units 5 and 6 due to the very high level of compliance demonstrated during previous stack test, since the installation of Electrostatic Precipitators on each unit. This letter permitted a more relaxed testing schedule of every three years for both units 5 and 6 and barring unforseen circumstances was anticipated to be a condition of the pending Title V permit for the boilers. Logansport Municipal Utilities has continued to demonstrate extremely high levels of compliance while performing testing on a three-year cycle and we would like to request to continue on this cycle versus the every other two years as stipulated in the draft permit.

Response #7: The IDEM is unable to grant the request to stack test every three (3) years instead of every two (2) years. The Title V permits are such that all utilities are required to stack test their boilers at least every two (2) years, some are required to test even more frequently.

Upon further review, the OAQ has decided to make the following revisions to the permit (bolded language has been added, the language with a line through it has been deleted). The Table of Contents has been modified to reflect these changes.

Revisions one (1) through six (6) below were made to incorporate the Article 2 rule revisions that were adopted on October 3, 2001, and became effective on January 19th, 2002. For more information about this rule making, refer to the October 2001 Air Pollution Control Board Packet which can be found on the internet at http://www.state.in.us/idem/air/rules/apcb/packets/index.html. The rule revisions will be published in the February 1, 2002 Indiana Register which can be found on the internet at http://www.IN.gov/legislative/register/index-25.html.

1. Section B.2 (Permit Term) has a new rule cite added.

B.2 Permit Term [326 IAC 2-7-5(2)] **[326 IAC 2-1.1-9.5]**

This permit is issued for a fixed term of five (5) years from the original date, as determined in accordance with IC 4-21.5-3-5(f) and IC 13-15-5-3. Subsequent revisions, modifications, or amendments of this permit do not affect the expiration date of this permit or of permits issued pursuant to Title IV of the Clean Air Act and 326 IAC 21 (Acid Deposition Control).

2. Condition B.12 (Emergency Provisions) (a) (b) and (g) have been revised to reflect rule changes to 326 IAC 2-7-16. This section of the rule is now consistent with 40 CFR 70.6(g) and provides an affirmative defense to an action brought for non-compliance with technology based emission limitations only.

B.12 Emergency Provisions [326 IAC 2-7-16]

(a) An emergency, as defined in 326 IAC 2-7-1(12), is not an affirmative defense for an action brought for noncompliance with a federal or state health-based emission limitation~~, except as provided in 326 IAC 2-7-16.~~

(b) An emergency, as defined in 326 IAC 2-7-1(12), constitutes an affirmative defense to an action brought for noncompliance with a ~~health-based or~~ technology-based emission limitation if the affirmative defense of an emergency is demonstrated through properly signed, contemporaneous operating logs or other relevant evidence that describe the following:

(g) ~~Operations may continue during an emergency only if the following conditions are met:~~

~~(1)~~ If the emergency situation causes a deviation from a technology-based limit, the Permittee may continue to operate the affected emitting facilities during the emergency provided the Permittee immediately takes all reasonable steps to correct the emergency and minimize emissions.

~~(2)~~ ~~If an emergency situation causes a deviation from a health-based limit, the Permittee may not continue to operate the affected emissions facilities unless:~~

~~(A) The Permittee immediately takes all reasonable steps to correct the emergency situation and to minimize emissions; and~~

~~(B) Continued operation of the facilities is necessary to prevent imminent injury to persons, severe damage to equipment, substantial loss of capital investment, or loss of product or raw materials of substantial economic value.~~

~~Any operation shall continue no longer than the minimum time required to prevent the situations identified in (g)(2)(B) of this condition.~~

3. Condition B.14 (Multiple Exceedances) has been deleted, because 326 IAC 2-7-5(1)(E) has been repealed, because it conflicted with 40 CFR 70.6(a)(6).

~~B.14 Multiple Exceedances [326 IAC 2-7-5(1)(E)]~~

~~Any exceedance of a permit limitation or condition contained in this permit, which occurs contemporaneously with an exceedance of an associated surrogate or operating parameter established to detect or assure compliance with that limit or condition, both arising out of the same act or occurrence, shall constitute a single potential violation of this permit.~~

4. Condition B.14 (Prior Permits Superseded) was added to the permit to implement the intent of the new rule 326 IAC 2-1.1-9.5

B.14 Prior Permits Superseded [326 IAC 2-1.1-9.5]

(a) All terms and conditions of previous permits issued pursuant to permitting programs approved into the state implementation plan have been either

(1) incorporated as originally stated,

(2) revised, or

(3) deleted

by this permit.

(b) All previous registrations and permits are superseded by this permit.

5. Portion (b) from B.13 Permit Shield was removed. Since B.14 Prior Permits Superseded has been added to the permit, it is not necessary for this statement to be in this condition.

B.13 Permit Shield [326 IAC 2-7-15] [326 IAC 2-7-20] [326 IAC 2-7-12]

~~(b) This permit shall be used as the primary document for determining compliance with applicable requirements established by previously issued permits. All previously issued operating permits are superseded by this permit.~~

6. The IDEM, OAQ has restructured C.16 to clarify the contents and implementation of the compliance response plan. The name of the condition has been changed to better reflect the contents of the condition. The language regarding the OAQ's discretion to excuse failure to perform monitoring under certain conditions has been deleted. The OAQ retains this discretion to excuse minor incidents of missing data; however, it is not necessary to state criteria regarding the exercise of that discretion in the permit. In (c)(2) "administrative amendment" has been revised to "minor permit modification," because 326 IAC 2-7-11(a)(7) has been repealed. Requests that do not involve significant changes to monitoring, reporting, or recordkeeping requirements may now be approved as minor permit modifications.

C.16 Compliance Response Plan - ~~Failure to take Response Steps~~ **Preparation, Implementation, Records and Reports** [326 IAC 2-7-5] [326 IAC 2-7-6]

(c) The Permittee is not required to take any further response steps for any of the following reasons:

(1) A false reading occurs due to the malfunction of the monitoring equipment and prompt action was taken to correct the monitoring equipment.

(2) The Permittee has determined that the compliance monitoring parameters established in the permit conditions are technically inappropriate, has previously submitted a request for ~~an administrative amendment~~ **a minor permit modification** to the permit, and such request has not been denied.

7. The C.6 Operation of Equipment condition was mistakenly included in the table of contents and has been deleted. The entire C section table of contents has been updated to reflect the change.

C.5 Fugitive Dust Emissions [326 IAC 6-4]
~~C.6 Operation of Equipment [326 IAC 2-7-6(6)]~~
C.~~7~~**6** Stack Height [326 IAC 1-7]

8. Since Logansport does not have a Continuous Emissions Monitor it was determined that the Maintenance of Emission Monitoring Equipment condition should not be included in the permit. The rest of the C section has been renumbered accordingly.

Compliance Monitoring Requirements [326 IAC 2-7-5(1)] [326 IAC 2-7-6(1)]
C.11 Compliance Monitoring [326 IAC 2-7-5(3)] [326 IAC 2-7-6(1)]
~~C.12 Maintenance of Emission Monitoring Equipment [326 IAC 2-7-5(3)(A)(iii)]~~
C.13 Maintenance of Opacity Monitoring Equipment [326 IAC 2-7-5(3)(A)(iii)]
C.14 Monitoring Methods [326 IAC 3]
C.15 Pressure Gauge Specifications [326 IAC 2-1.1-11] [326 IAC 2-7-5(3)] [326 IAC 2-7-6(1)]

~~C.12 Maintenance of Emission Monitoring Equipment [326 IAC 2-7-5(3)(A)(iii)]~~

~~(a) The Permittee shall install, calibrate, maintain, and operate all necessary monitors and related equipment. In addition, prompt corrective action shall be initiated whenever indicated.~~

~~(b) In the event that a breakdown of the emission monitoring equipment occurs, a record~~

~~shall be made of the times and reasons of the breakdown and efforts made to correct the problem. To the extent practicable, supplemental or intermittent monitoring of the parameter should be implemented as required in Section D of this permit until such time as the monitoring equipment is back in operation.~~

~~(c) Nothing in this condition shall excuse the Permittee from complying with the requirements to operate emission monitoring equipment pursuant to 40 CFR 60.334(a).~~

9. The D.1.2 Temporary Alternative Opacity Limitations condition has been changed to accurately cite the references made.

D.1.2 Temporary Alternative Opacity Limitations [326 IAC 5-1-3]

(b) If this facility cannot meet the opacity limitations in (a)**(1)** and (a)**(2)** of this condition, the Permittee may submit a written request to IDEM, OAQ, for a temporary alternative opacity limitation in accordance with 326 IAC 5-1-3(d). The Permittee must demonstrate that the alternative limit is needed and justifiable.

10. The D.1.4, Operation Standards condition has been revised to add rule cites.

D.1.4 Operation Standards **[326 IAC 2-1.1-5(a)(4)] [40 CFR 261] [329 IAC 13]**

11. The D.1.6 condition has been revised to delete the specific test methods that were previously given, to provide the Permittee with more flexibility.

D.1.6 Testing Requirements [326 IAC 2-7-6(1), (6)] [326 IAC 2-1.1-11]

Within a two (2) year period from the most recent stack test, compliance with the PM limitation in Condition D.1.1 shall be determined by a performance stack test ~~conducted in accordance with Section C - Performance Testing. The Permittee shall perform PM testing~~ utilizing ~~Methods 5 or 17 (40 CFR 60, Appendix A), or other~~ methods as approved by the Commissioner. This test shall be repeated at least once every two (2) years from the date of this valid compliance demonstration. Testing shall be conducted in accordance with Section C - Performance Testing.

12. The D.1.9 Cleaning Waste Analysis condition has been added to the permit. The Table of Contents have been updated to include this condition.

D.1.9 Cleaning Waste Analysis [326 IAC 2-1.1-5(a)(4)] [40 CFR 261]

The Permittee shall use appropriate test methods as listed in 40 CFR Part 261 to analyze all boiler chemical cleaning wastes that will be burned, to determine compliance with the Operation Standards condition in this D section.

13. The D.1.10, Transformer Rectifier (T-R) Set condition has been revised to add rule cites and to add updated language determined to be more appropriate for T-R Set Compliance Monitoring.

D.1.~~9~~**10** Transformer-Rectifier (T-R) Sets **[326 IAC 2-7-6(1)] [326 IAC 2-7-5(1)]**

~~The ESP shall be operated at all times when the boiler is in operation.~~

(a) The ability of the ESP to control particulate emissions shall be monitored once per shift, ~~(decided on a case by case basis)~~ when the unit is in operation, by measuring and recording the number of T-R sets in service and the primary and secondary voltages and the currents of the transformer-rectifier (T-R) sets.

(b) ~~Appropriate~~ **Reasonable** response steps shall be taken in accordance with Section C - Compliance Response Plan - ~~Failure to Take Response Steps~~ **Preparation, Implementation, Records, and Reports** whenever the percentage of T-R sets in service falls below 90 percent. T-R set failure resulting in less than 90 percent availability is not a deviation from this permit. ~~In the event of T-R set failure resulting in less than 90 percent availability, the Permittee shall take steps as detailed in the Compliance Response Plan for the unit~~. **Failure to take response steps in accordance with Section C - Compliance Response Plan - Preparation, Implementation, Records, and Reports, shall be considered a violation of this permit.**

~~(c) Available T-R sets shall be operated at voltage and current levels consistent with the ESP manufacturer's specifications.~~

~~(d) The instrument used for determining the T-R set voltage shall be subject to approval by IDEM, OAQ, and shall be calibrated at least once every six (6) months.~~

14. The D.1.11, Opacity Reading condition has been revised to add rule cites and to add language determined to be more appropriate for Opacity Readings.

D.1.1~~0~~**1** Opacity Readings **[326 IAC 2-7-6(1)] [326 IAC 2-7-5(1)]**

(a) Appropriate response steps shall be taken in accordance with Section C - Compliance Response Plan -Preparation, Implementation, Records and Reports whenever the opacity exceeds 20 percent. ~~In the event of opacity exceeding 40 percent, the boiler will be shut down, if necessary, so that T-R sets or the ESP can be repaired or the causes leading to T-R set outages or ESP malfunction can be corrected.~~ **for three (3) consecutive six (6) minute averaging periods. In the event of opacity exceeding 20 percent, response steps will be taken such that the cause(s) of the excursion are identified and corrected and opacity levels are brought back below 20 percent. Examples of expected response steps include, but are not limited to, boiler loads being reduced and ESP T-R sets being returned to service.**

(b) ~~The instrument used for determining the T-R set voltage shall be subject to approval by IDEM, OAQ, and shall be calibrated at least once every six (6) months.~~
Opacity readings in excess of 20 percent but not exceeding the opacity limit for the unit are not a deviation from this permit. Failure to take response steps in accordance with Section C - Compliance Response Plan - Preparation, Implementation, Records, and Reports, shall be considered a violation of this permit.

15. The D.1.12, Preventive Inspections condition has been revised to add rule cites and to include language that gives the Permittee clearer guidance.

D.1.11~~2~~Preventive Inspections: **Electrostatic Precipitator [326 IAC 2-7-6(1)] [326 IAC 2-7-5(1)]**

(a) The following inspections shall be performed ~~at least once every two years~~ **according to the indicated schedules** in accordance with the Preventive Maintenance Plan prepared in accordance with Section B - Preventive Maintenance Plan:

(1) Plate and electrode alignment**, every major maintenance outage, but no less than every 2 years**;

(2) ESP **TR set** component**s** ~~/controller failure;~~**, performed whenever there is an outage of any nature lasting more than three days, unless such inspections have been performed within the last six months. At a minimum, the following inspections shall be performed:**

(A) Internal inspection of shell for corrosion (i.e., doors, hatches, insulator housing, roof area).

(B) Effectiveness of rapping (i.e., buildup of dust on discharge electrodes and plates).

(C) Gas Distribution (i.e., buildup of dust on distribution plates and turning vanes).

(D) Dust accumulation (i.e., buildup of dust on shell and support members that could result in grounds or promote advanced corrosion.)

(E) Major misalignment of plates (i.e., visual checks of plate alignment).

(F) Rapper, vibrator and TR set control cabinets (motors, lubrication, etc.)

(G) Rapper assembly (i.e., loose bolts, ground wires, water in air lines, solenoids, etc.)

(H) Vibrator and rapper seals (i.e., air in-leakage, wear, deterioration)

(I) TR set controllers (i.e., low voltage trip point, over current trip, spark rate, etc.)

(J) Vibrator air pressure settings

(3) Air and water infiltration**, once/month. The recommended method for this inspection is for audible checks around ash hoppers/hatches, duct expansion joints, and areas of corrosion.**

~~(b) Plate and electrode alignment measurements shall be taken whenever there is an outage of any nature lasting more than three days unless such measurements have been taken within the past six months.~~

~~(c) All other inspections shall be made whenever there is an outage of any nature lasting more than three days unless such measurements have been taken within the past twelve months.~~

(b) Reasonable response steps shall be taken in accordance with Section C - Compliance Response Plan - Preparation, Implementation, Records, and Reports for any improper or abnormal conditions found during an inspection. Discovery of an abnormal or improper condition is not a deviation from this permit. Failure to take response steps in accordance with Section C - Compliance Response Plan - Preparation, Implementation, Records, and Reports, shall be considered a violation of this permit.

16. The D.1.13 Record Keeping Requirements condition has been revised, the changes are shown below with strikeouts to show deletion and bolded language to show what was added. These changes were made to provide language more appropriate for Record Keeping Requirements.

~~D.1.12 Record Keeping Requirements~~

~~(a) To document compliance with Conditions D.1.4, D.1.5 and D.1.7 the Permittee shall maintain records in accordance with (1) through (5) below. Records maintained for (2) and (3) shall be taken daily and shall be complete and sufficient to establish compliance with the opacity, PM and SO_2. limits established in Section C - Opacity, D.1.1, D.1.2 and D.1.3.~~

~~(1) Data and results from the most recent stack test;~~

~~(2) All coal sampling and analysis data, pursuant to 326 IAC 3-7 and 326 IAC 7-1.1;~~

~~(3) All parametric monitoring readings;~~

~~(4) All preventive maintenance measures taken; and~~

~~(5) All response steps taken and the outcome for each.~~

~~(b) All records shall be maintained in accordance with Section C - General Record Keeping Requirements, of this permit.~~

D.1.13 Record Keeping Requirements

(a) To document compliance with Condition D.1.3 and D.1.7, the Permittee shall maintain records in accordance with (1) through (4) below. Records maintained for (1) and (4) shall be sufficient to demonstrate compliance using a thirty (30) day rolling weighted average and shall be complete and sufficient to establish compliance with the SO_2 limit established in D.1.3

(1) Calendar dates covered in the compliance determination period;

(2) Actual coal usage since last compliance determination period;

(3) Sulfur content and heat content;

(4) Sulfur dioxide emission rates.

(b) Pursuant to 326 IAC 3-7-5(a), the Permittee shall develop a standard operating procedure (SOP) to be followed for sampling, handling, analysis, quality control, quality assurance, and data reporting of the information collected pursuant to 326 IAC 3-7-2 through 326 IAC 3-7-4. In addition, any revision to the SOP shall be submitted to IDEM, OAQ.

(c) To document compliance with Conditions D.1.1, D.1.2, D.1.4, D.1.5, D.1.6, D.1.8, D.1.9, D.1.10 and D.1.11, the Permittee shall maintain records in accordance with (1) through (6) below. Records shall be complete and sufficient to establish compliance with the limits established in Section C - Opacity and in Conditions D.1.1 and D.1.2.

(1) Data and results from the most recent stack test;

(2) All continuous emissions monitoring data, pursuant to 326 IAC 3-5;

(3) All parametric monitoring readings;

(4) Records of the results of the ESP inspections;

(5) All preventive maintenance measures taken; and

(6) All response steps and the outcome for each.

(d) All records shall be maintained in accordance with Section C - General Record Keeping Requirements, of this permit.

17. The D.1.14, Reporting Requirement condition has been revised, the changes are shown below. These changes were made to add language to specify that the report must be certified by the responsible official and to delete the reference to condition D.1.1, which the source does not need to submit a report for to show compliance.

D.1.14 Reporting Requirements

A quarterly summary of the information to document compliance with Conditions ~~D.1.1~~ and D.1.3 shall be submitted to the addresses listed in Section C - general Reporting Requirements, of this permit, using the reporting forms located at the end of this permit, or their equivalent, within thirty (30) days after the end of the quarter being reported. **The report submitted by the Permittee does require the certification by the "responsible official" as defined by 326 IAC 2-7-1(34).**

18. The D.2.5, Visible Emissions Notations condition has been revised to add rule cites.

D.2.5 Visible Emissions Notations **[326 IAC 2-7-6(1)] [326 IAC 2-7-5(1)]**

(a) Visible emission notations of the baghouse stack exhaust shall be performed once per shift during normal daylight operations when exhausting to the atmosphere. A trained employee shall record whether emissions are normal or abnormal.

19. The D.2.6, Baghouse Inspections condition has been revised to add rule cites and new language determined to be more appropriate for these inspections.

D.2.6 Baghouse Inspections **[326 IAC 2-7-6(1)] [326 IAC 2-7-5(1)]**

(a) An inspection shall be performed each calender quarter of all bags controlling ~~coal and~~ **PM emissions from** the ash handling operation when venting to the atmosphere. A baghouse inspection shall be performed within three months of redirecting vents to the atmosphere and every three months thereafter. **Inspections are optional when venting to the indoors**. All defective bags shall be replaced.

(b) If an abnormal or improper condition is found during an inspection, the Permittee shall take reasonable response steps in accordance with Section C - Compliance Response Plan - Preparation, Implementation, Records, and Reports. Discovery of an abnormal or improper condition is not a deviation from this permit. Failure to

take response steps in accordance with Section C - Compliance Response Plan - Preparation, Implementation, Records, and Reports, shall be considered a violation of this permit.

20. The D.2.7, Broken or Failed Bag Detection condition has been updated to add the following rule cites and new language determined to be more appropriate for broken or failed bag detection.

D.2.7 Broken or Failed Bag Detection **[326 IAC 2-7-6(1)] [326 IAC 2-7-5(1)]**

In the event that bag failure has been observed:

~~(1)~~ **(a) For multi-compartment units,** ~~T~~the affected compartments will be shut down immediately until the failed units have been repaired or replaced. **Operations may continue only if there are no visible emissions or if the event qualifies as an emergency and the Permittee satisfies the emergency provisions of this permit (Section B - Emergency Provisions).** Within eight (8) hours of the determination of failure, response steps according to the timetable described in the Compliance Reponse Plan shall be initiated. For failure with corresponding response steps and timetable not described in the Compliance Response Plan, response steps shall be devised within eight (8) hours of discovery of the failure and shall include a timetable for completion. ~~Operations may continue only if the event qualifies as an emergency and the Permittee satisfies the requirements of the emergency provisions of this permit (Section B - Emergency Provisions).~~ **Failure to take response steps in accordance with Section C - Compliance Response Plan - Preparation, Implementation, Records, and Reports, shall be considered a violation of this permit.**

~~(2)~~ **(b)** For single compartment baghouses, failed units and the associated process will be shut down immediately until the failed units have been repaired or replaced. Operations may continue only if the event qualifies as an emergency and the Permittee satisfies the requirements of the emergency provisions of this permit (Section B - Emergency Provisions).

21. The D.2.8, Baghouse Parametric Monitoring condition has been added as a new condition for compliance monitoring.

D.2.8 Baghouse Parametric Monitoring [326 IAC 2-7-6(1)] [326 IAC 2-7-5(1)]

(a) The Permittee shall record the total static pressure drop across the baghouse used in conjunction with the ash handling at least once per shift when the ash handling is in operation when venting to the atmosphere. When for any one reading, the pressure drop across the baghouse is outside the normal range of 3.0 and 6.0 inches of water or a range established during the latest stack test, the Permittee shall take reasonable response steps in accordance with Section C - Compliance Response Plan - Preparation, Implementation, Records, and Reports. A pressure reading that is outside above mentioned range is not a deviation from this permit. Failure to take response steps in accordance with Section C - Compliance Response Plan - Preparation, Implementation, Records, and Reports, shall be considered a violation of this permit.

(b) The instrument used for determining the pressure shall comply with Section C - Pressure Gauge and Other Instrument Specifications, and shall be calibrated at least once every six (6) months.

22. The D.2.9 condition, Record Keeping Requirements condition has been changed to add the following (c) section which states that the total static pressure drop shall be recorded once per shift.

D.2.9 Record Keeping Requirements

(a) To document compliance with Condition D.2.5, the Permittee shall maintain records of visible emission notations of the baghouse stack exhaust once per shift.

(b) To document compliance with Condition D.2.1, the Permittee shall maintain records of the results of the inspections required under Condition D.2.6 and the dates the vents are redirected.

(c) **To document compliance with Condition D.2.8, the Permittee shall maintain records of the total static pressure drop across the baghouse used in conjunction with the ash handling at least once per shift.**

(d) All records shall be maintained in accordance with Section C - General Record Keeping Requirements, of this permit.

23. The Part 70 Quarterly Report has been revised. The Facility and Limit have been included in the report as shown below.

Part 70 Quarterly Report

Source Name: Logansport Municipal Utilities
Source Address: 8th and Race Streets, Logansport, Indiana 45947
Mailing Address: City Building, 601 East Broadway #101, Logansport, Indiana 46947
Part 70 Permit No.: T017-7478-00006
Facility: **Unit 5 and Unit 6**
Parameter: SO_2 Emission Rate
Limit: **SO_2 emissions from either Unit 5 or Unit 6 shall not exceed 6.0 pounds per million Btu (lbs/mmBtu)**

Technical Support Document

The Office of Air Quality prefers that the Technical Support Document reflect the permit that was on public notice. Changes to the permit or technical support material that occur after the public notice are documented in this Addendum to the Technical Support Document. That accomplishes the desired result of ensuring that these types of concerns are documented and part of the record regarding this permit decision.

24. The following changes shall serve as documentation for what the TSD should now read.

Permitted Emission Units and Pollution Control Equipment

The source consists of the following permitted emission units and pollution control devices:

1. One (1) spreader stoker coal-fired boiler (unit 5), constructed in 1955, rated at 200 million Btu per hour heat input, used to generate electricity. Particulate emissions are controlled by an electrostatic precipitator, opacity is measured with a continuous opacity monitor. Controlled emissions are exhausted to the atmosphere through a ~~125~~ **150** foot (above grade) stack having a 72 inch exit diameter.

2. One (1) spreader stoker coal-fired boiler (unit 6), constructed in 1962, rated at 300 million Btu per hour heat input, used to generate electricity. Particulate emissions are controlled by an electrostatic precipitator, opacity is measured with a continuous opacity monitor. Controlled emissions are exhausted to the atmosphere through a ~~125~~ **150** foot (above grade) stack having an **84** inch exit diameter.

25. On page four (4) of the TSD the following paragraph included a sentence that was erroneously included.

(b) The potential to emit (as defined in 326 IAC 2-1.1-1(16)) of any single HAP is less than ten (10) tons per year and the potential to emit (as defined in 326 IAC 2-7-1-(29)) of a combination of HAPs is less than twenty-five (25) tons per year. ~~Therefore, the source is subject to the provisions of 326 IAC 2-7.~~

26. The following states what the TSD should have read. There was an erroneous page number referenced and the particulate matter limits changed because of the new stack height.

326 IAC 6-2-3(a) (Particulate Matter Emissions Limitations)

Pursuant to 326 IAC 6-2-3(a) (Particulate Matter Emissions for Sources of Indirect Heating), particulate matter from any facility used for indirect heating purposes which were existing on or before September 21, 1983 shall in no case exceed ~~0.42~~ **0.51** lb/mmBtu heat input. Please refer to page ~~12~~ **15** of this TSD for calculations. This limitation was calculated using the following equation:

$$Pt = \frac{(C)\,(a)\,(h)}{76.5\ (Q^{0.75})\ (N^{0.25})}$$

Where C = 50 F/m^3
Q = total source capacity (mmBtu/hr)
500
N = number of stacks
a = ~~0.8~~ **0.67**
h = average stack height (feet)
Pt = pounds of particulate matter
(lb/mmBtu)
emitted per million Btu heat input

27. The following states what the TSD should have read. The particulate matter limits changed because of the new stack height.

326 IAC 6-2-3(a) (Particulate Matter Emission Limitations)

326 IAC 6-2-3(a) (Particulate Matter Emissions Limitations)

Pursuant to 326 IAC 6-2-3(a) (Particulate Matter Emissions for Sources of Indirect Heating), particulate matter from any facility used for indirect heating purposes which were existing on or before September 21, 1983 shall in no case exceed ~~0.42~~ **0.51** lb/mmBtu heat input. Please refer to page 15 of this TSD for calculations. This limitation was calculated using the following equation:

$$Pt = \frac{(C)\,(a)\,(h)}{76.5\ (Q^{0.75})\ (N^{0.25})}$$

Where C = 50 F/m^3
Q = total source capacity (mmBtu/hr)
500
N = number of stacks
a = ~~0.8~~ **0.67**
h = average stack height (feet)
Pt = pounds of particulate matter
emitted per million Btu heat input
(lb/mmBtu)

28. The calculations for Particulate Matter Limitations from Units #5 and #6 were done incorrectly because of an incorrect stack height for both units and incorrect total capacities were used. The following serves as documentation for what the TSD should read.

Calculations for Particulate Matter Limitations from Units #5 and #6

$$Pt = \frac{(C)(a)(h)}{76.5\ (Q^{0.75})\ (N^{0.25})}$$

Where C = 50 F/m^3
Q = total source capacity ~~(lbs/mmBtu)~~**(mmBtu/hr)**
N = number of stacks
a = ~~0.8~~ **0.67**

h = average stack height (feet)
Pt = pounds of particulate matter emitted per million Btu heat input mmBtu)

$$h = \frac{\sum_{i=1}^{N} 3\ H_1 \times pa_i \times Q}{\sum_{i=1}^{N} 3\ pa_i \times Q}$$

Where pa = controlled emission rate in lb/mmBtu using the emission factor from AP 42 or stack test data.

Unit #5 (Constructed 1955) & Unit #6 (Constructed 1962)
Since the boilers were each constructed and in operation before 1972 they ~~were~~ limitations were calculated together.

$$h = \frac{(\text{~~125~~ }\mathbf{150}\text{ x 0.006 x ~~200~~ }\mathbf{500}) + (\text{~~125~~ }\mathbf{150}\text{ x 0.006 x ~~300~~ }\mathbf{500})}{(0.006)\text{~~(200)~~}\mathbf{(500)} + (0.006)\text{~~(300)~~}\mathbf{(500)}}$$

h= 150

$$Pt = \frac{(50)(0.67)(\text{~~125~~ }\mathbf{150})}{(76.5)(500)^{0.75}(2)^{0.25}} = \frac{5025}{9703} = \text{~~0.417~~ }\mathbf{0.51}\text{ lb/mmBtu}$$

**** Unit #5 and Unit #6 will each have a limit of ~~0.417~~ **0.51** lb/mmBtu, this was derived using the above calculation ****

Particulate Emission Rate before controls

6,284 ton/year x year/8,760 hours x 2,000 lbs/ton x 1 hour/500 mmBtu = 2.87 lb/mmBtu

Unit #5
2513.74 ton/yr x 1 yr/8760 hrs x 2000 lbs/ton x 1 hr/200 mmBtu = 2.87 lb/mmBtu
Unit #6
3770.61 ton/yr x 1 yr/8760 hrs x 2000 lbs/ton x 1 hr/300 mmBtu = 2.87 lb/mmBtu

Particulate Emission Rate after controls (Cyclones) and ESP

6,284 ton/year x (1 - 99.8) = 12.56 ton/year
Unit #5
2513.74ton/year x (1-0.998) = 5.02 ton/year
Unit #6
3770.61ton/year x (1-0.998) = 7.54 ton/year

12.56 tons/year x year/8,760 hour x 2,000 lbs/ton x 1 hr/500mmBtu = 0.006 lb/mmBtu
Unit #5
5.02ton/yr x 1yr/8760hrs x 2000lb/ton x 1hr/200mmBtu = 0.006lb/mmBtu
Unit #6
7.54ton/yr x 1yr/8760hrs x 2000lb/1ton x 1hr/300mmBtu = 0.006lb/mmBtu

29. The Potential to Emit table in the TSD is being modified as documented below. The modification is being done to provide more detailed information on all of the processes at this Source.

	Potential to Emit (tons/year)						
Process/facility	PM	PM-10	SO_2	VOC	CO	NO_X	HAPs
Unit 5	**6** ~~0.42 lb/mmBtu~~	**2**	**2,475** ~~6.0 lb/mmBtu~~	**2**	**190**	**418**	- - -
Unit 6	**8** ~~0.42 lb/mmBtu~~	**2**	**3,712** ~~6.0 lb/mmBtu~~	**4**	**285**	**628**	- - -
Ash Handling System	**1** ~~7.4 lb/hr~~	- - -	- - -	- - -	- - -	- - -	- - -
Natural gas-fired turbine generator	**2**	- - -	**92** ~~0.8% by weight~~	**0.7**	**27**	**105**	- - -
Total Emissions	**17** ~~greater than 100~~	**4** ~~greater than 100~~	**6,279** ~~greater than100~~	**7** ~~less than 100~~	**502** ~~greater than100~~	**1,151** ~~greater than 100~~	less than 10

30. Many of the compliance monitoring conditions have been revised to include updated language, which has been determined to be more appropriate. These changes are all documented in this addendum and the permit has been updated.

31. The following changes shall serve as documentation for what the TSD should now read on page 9 “Testing Requirement”.

    Unit 5 and Unit 6 are required to stack test **every two (2) years** ~~binannually~~ for Particulate Matter.

32. The following sentence shall serve as documentation for what the TSD should now read as part of the “State Rule Applicability” on page 6 of the TSD.

    326 IAC 10-4 (NOx Budget Trading Program)

    This Source is not subject to 326 IAC 10-4-1 because it is not an “Electricity Generating Unit” or “EGU” as defined in 326 IAC 10-4-2(16) and it is not an affected unit as defined in 326 IAC 10-4-2(27).

Indiana Department of Environmental Management
Office of Air Quality

Technical Support Document (TSD) for a Part 70 Operating Permit

Source Background and Description

Source Name: City of Logansport, Logansport Municipal Utilities
Source Location: 8th and Race Streets, Logansport, Indiana 46947
County: Cass
SIC Code: 4911
Operation Permit No.: T017-7478-00006
Permit Reviewer: Laura M. Groom

The Office of Air Quality (OAQ) has reviewed a Part 70 permit application from the City of Logansport, Logansport Municipal Utilities relating to the operation of an electric generating station.

Permitted Emission Units and Pollution Control Equipment

The source consists of the following permitted emission units and pollution control devices:

(1) One (1) spreader stoker coal-fired boiler (unit 5), constructed in 1955, rated at 200 million Btu per hour heat input, used to generate electricity. Particulate emissions are controlled by an electrostatic precipitator, opacity is measured with a continuous opacity monitor. Controlled emissions are exhausted to the atmosphere through a 150 foot (above grade) stack having a 72 inch exit diameter.

(2) One (1) spreader stoker coal-fired boiler (unit 6), constructed in 1962, rated at 300 million Btu per hour heat input, used to generate electricity. Particulate emissions are controlled by an electrostatic precipitator, opacity is measured with a continuous opacity monitor. Controlled emissions are exhausted to the atmosphere through a 150 foot (above grade) stack having an 84 inch exit diameter.

(3) One (1) ash handling system, with a maximum throughput of 21,000 tons of ash per year consisting of the following:

One (1) storage silo with a storage capacity of 6,233 ft^3. Mechanical blowers pneumatically convey bottom ash and fly ash. Ash is loaded from bottom of silo through a chute to trucks for offsite disposal. A baghouse is used to control particulate emissions and wet suppression is used to control emissions from the truck loading.

(4) One (1) natural gas-fired turbine generator, constructed in 1969, identified as TG6, rated at 75 million Btu's per hour (17,900 kW).

Insignificant Activities

The source also consists of the following insignificant activities, as defined in 326 IAC 2-7-1(21):

(1) Application of oils, greases, lubricants or other nonvolatile materials applied as temporary protective coatings.

(2) Machining where an aqueous cutting coolant continuously floods the machining interface.

(3) Degreasing operations that do not exceed 145 gallons per 12 months, except if subject to 326 IAC 20-6.

(4) Cleaners and solvents as characterized as follows:
(a) having a vapor pressure equal to or less than 2kPa; 15mm Hg; or 0.3 psi measured at 38 degrees C (100 degrees F) or;
(b) having a vapor pressure equal to or less than 0.7 ka; 5mm Hg; or 0.1 psi measured at 20 degrees C (68 degrees F);
The use of which for all cleaners and solvents combined does not exceed 145 gallons per 12 months.

(5) Closed loop heating and cooling systems.

(6) Replacement or repair of electrostatic precipitators, bags in baghouses and filters in other air filtration equipment.

(7) Heat exchanger cleaning and repair.

(8) Coal bunker and coal scale exhausts and associated dust collector events.

(9) Asbestos abatement projects regulated by 326 IAC 14-10.

(10) Purging of gas lines and vessels that is related to routine maintenance and repair of buildings, structures, or vehicles at the source where air emissions from those activities would not be associated with any production process.

(11) Blowdown for any of the following: sight glass, boiler, compressors, pumps, and cooling tower.

(12) Filter or coalescer media changeout.

(13) A laboratory as defined in 326 IAC 2-7-1(21)(D).

(14) Activities with emissions equal to or less than thresholds:

Lead(Pb=0.6 ton/year or 3.29 lbs/day
Carbon Monoxide(CO)=25 lbs/day
Sulfur Dioxide(SO2)=5 lbs/hour or 25 lbs/day
Particulate matter(PM)=5 lbs/hour or 25 lbs/day
Nitrogen Oxides (NOx)=5 lbs/hour or 25 lbs/day
Volatile Organic Compounds (VOC)=3 lbs/hour or 15 lbs/day

(a) Coal storage piles
(b) Outside handling of coal
(c) Other coal handling and conveying
(d) No. 2 fuel oil storage tank (157,920 gallon tank)

Existing Approvals

The source has been operating under previous approvals including, but not limited to, the following:

(1) OP 09-06-92-0173, issued on April 25, 1990; and

(2) OP 09-06-92-0174, issued on April 25, 1990; and

(3) OP 09-06-92-0175, issued on April 25, 1990; and

All conditions from previous approvals were incorporated into this Part 70 permit except the following:

(1) OP 09-06-92-0173, issued on April 25, 1990

Condition 4: That pursuant to 326 IAC 6-2-3, particulate matter emissions to the atmosphere from Unit 5 shall be limited to 0.42 pounds per million Btu of heat input.

Reason not incorporated: The correct limit should be 0.51 lb/mmBtu using the formula in 326 IAC 6-2-3(a).

(2) OP 09-06-92-0174, issued on April 25, 1990

Condition 4: That pursuant to 326 IAC 6-2-3, particulate matter emissions to the atmosphere from Unit 6 shall be limited to 0.43 pounds per million Btu's of heat input.

Reason not incorporated: The correct limit should be 0.51 lb/mmBtu using the formula in 326 IAC 6-2-3(a).

Enforcement Issue

There are no enforcement actions pending.

Recommendation

The staff recommends to the Commissioner that the Part 70 permit be approved. This recommendation is based on the following facts and conditions:

Unless otherwise stated, information used in this review was derived from the application and additional information submitted by the applicant.

An administratively complete Part 70 permit application for the purposes of this review was received on December 11, 1996.

Emission Calculations

See Appendix A and Attachment B of this document for detailed emissions calculations.

Potential To Emit

Pursuant to 326 IAC 2-1.1-1(16), Potential to Emit is defined as the "the maximum capacity of a stationary source to emit any air pollutant under its physical and operational design. Any physical or operational limitation on the capacity of a source to emit an air pollutant, including air pollution control equipment and restrictions on hours of operation or type or amount of material combusted, stored, or processed shall be treated as part of its design if the limitation is enforceable by the U.S. EPA."

This table reflects the PTE before controls. Control equipment is not considered federally enforceable until it has been required in a federally enforceable permit.

Pollutant	Potential Emissions (tons/year)
PM	Greater than 250 tons
PM-10	Greater than 250 tons
SO_2	Greater than 250 tons
VOC	Less than 250 tons
CO	Greater than 250 tons
NO_x	Greater than 250 tons

Note: For the purpose of determining Title V applicability for particulates, PM-10, not PM, is the regulated pollutant in consideration.

HAP's	Potential Emissions (tons/year)
combined	6.2
TOTAL	6.2

(a) The potential to emit (as defined in 326 IAC 2-1.1-1(16)) of particulate matter less than ten (10) microns (PM_{10}), sulfur dioxide (SO_2), nitrogen oxides (NOx)and carbon monoxide (CO) is equal to or greater than 100 tons per year. Therefore, the source is subject to the provisions of 326 IAC 2-7.

(b) The potential to emit (as defined in 326 IAC 2-1.1-1(16)) of any single HAP is less than ten (10) tons per year and the potential to emit (as defiend in 326 IAC 2-7-1-(29)) of a combination of HAPs is less than twenty-five (25) tons per year. Therefore, the source is subject to the provisions of 326 IAC 2-7.

(c) Fugitive Emissions
Since this type of operation is one of the twenty-eight (28) source categories under 326 IAC 2-2 the fugitive emissions are counted toward determination of PSD and emission Offset applicability.

Actual Emissions

The following table shows the actual emissions from the source. This information reflects the 2000 OAQ emission data.

Pollutant	Actual Emissions (tons/year)
PM	No data submitted
PM-10	1
SO_2	1792
VOC	3
CO	230
NO_x	644
HAPs	no data submitted

Potential to Emit After Issuance

The table below summarizes the potential to emit, reflecting all limits, of the significant emission units after controls. The control equipment is considered federally enforceable only after issuance of this Part 70 operating permit.

	Potential to Emit (tons/year)						
Process/facility	PM	PM-10	SO_2	VOC	CO	NO_X	HAPs
Unit 5	6	2	2,475	3	190	418	
Unit 6	8	2	3,712	4	285	628	
Ash Handling System	30	- - -	- - -	- - -	- - -	- - -	
Natural gas-fired turbine generator	2	- - -	92	0.7	27	- - -	- - -
Total Emissions	46	4	6,297	7.7	502	1,046	

County Attainment Status

The source is located in Cass County.

Pollutant	Status
PM-10	unclassifiable
SO_2	attainment
NO_2	attainment
Ozone	attainment
CO	attainment
Lead	unclassifiable

(a) Volatile organic compounds (VOC) are precursors for the formation of ozone. Therefore, VOC emissions are considered when evaluating the rule applicability relating to the ozone standards. Cass county has been designated as attainment or unclassifiable for ozone. Therefore, VOC emissions were reviewed pursuant to the requirements for Prevention of Significant Deterioration (PSD), 326 IAC 2-2 and 40 CFR 52.21.

(b) Cass County has been classified as attainment or unclassifiable for Particulate Matter less than ten (10) microns (PM_{10}), sulfur dioxide (SO_2), ozone and carbon monoxide (CO).

(c) Fugitive Emissions
Since this type of operation is one of the twenty-eight (28) listed source categories under 326 IAC 2-2 the fugitive particulate matter (PM) emissions are counted toward determination of PSD and Emission Offset applicability.

Federal Rule Applicability

(a) There are no New Source Performance Standards (326 IAC 12)(40 CFR 60) applicable to this source.

(b) The spreader stoker coal-fired boilers are not subject to the requirements of the New Source Performance Standards, 326 IAC 12, (40 CFR 60, Subparts D,Da,Db or Dc), due to the dates of construction.

(c) The natural gas-fired turbine generator is subject to the requirements of the New Source Performance Standard, 326 IAC 12, (40 CFR 60, Subpart GG), due to the capacity of

the turbine generator. The permittee shall limit sulfur dioxide emissions, as required by 40 CFR 60.333, to 0.015 percent by volume at 15 percent oxygen on a dry basis, or use natural gas fuel with a sulfur content less than or equal to 0.8 percent by weight.

(d) There are no National Emission Standards for Hazardous Air Pollutants (NESHAPs)(40 CFR 63) applicable to this source.

(e) This source is not subject Title IV (Acid Deposition Control) of the Clean Air Act, as defined in 326 IAC 2-7-1(3). It is exempt because it does not as of November 15, 1990 serve a generator with a nameplate capacity of greater than 25 Mwe.

(f) The insignificant fuel tank is not subject to the requirements of 40 CFR Part 60, Subpart K, because it was constructed before June 11, 1973.

State Rule Applicability - Entire Source

326 IAC 1-6-3 (Preventive Maintenance Plan)

The source submitted a Preventive Maintenance Plan (PMP) on December 11, 1996. This PMP has been verified to fulfill the requirements of 326 IAC 1-6-3 (Preventive Maintenance Plan).

326 IAC 2-2 (Prevention of Significant Deterioration)

Pursuant to 326 IAC 2-2 (Prevention of Significant Deterioration) and 40 CFR 52.21, this source is a major source; however, the source did not undergo PSD review, based on the dates of construction, which were before August 1977, when PSD limits were established.

326 IAC 2-6 (Emission Reporting)

This source is subject to 326 IAC 2-6 (Emission Reporting), because it has the potential to emit more than one hundred (100) tons per year of particulate matter (PM), particulate matter less than ten (10) microns (PM_{10}), sulfur dioxide (SO_2), nitrogen oxides (NOx), and carbon monoxide (CO). Pursuant to this rule, the owner/operator of the source must annually submit an emission statement for the source. The annual statement must be received by July 1 of each year and contain the minimum requirement as specified in 326 IAC 2-6-4. The submittal should cover the period defined in 326 IAC 2-6-2(8)(Emission Statement Operating Year).

326 IAC 5-1 (Opacity Limitations)

Pursuant to 326 IAC 5-1-2 (Opacity Limitations), except as provided in 326 IAC 5-1-3 (Temporary Alternative Opacity Limitations), opacity shall meet the following, unless otherwise stated in this permit:

(a) Opacity shall not exceed an average of forty percent (40%) in any one (1) six (6) minute averaging period as determined by 326 IAC 5-1-4,

(b) Opacity shall not exceed sixty percent (60%) for more than a cumulative total of fifteen (15) minutes (sixty (60) readings as measured according to 40 CFR 60, Appendix A, Method 9 or fifteen (15) one (1) minute non overlapping integrated averages for a continuous opacity monitor) in a six (6) hour period.

326 IAC 7-3-1 (Sulfur dioxide ambient monitoring)

The Source is not subject to the sulfur dioxide ambient monitoring requirements because the emissions the actual sulfur dioxide emissions are less than 10,000 tons per year.

State Rule Applicability - Boiler Unit 5

326 IAC 5-1-3 Opacity Exemption

(a) Pursuant to 326 IAC 5-1-3 (Temporary Alternative Opacity Limitations), the following applies:

(1) When building a new fire in a boiler, or shutting down a boiler, opacity may exceed the applicable limit established in 326 IAC 5-1-2 and stated in Section C - Opacity. However, opacity levels shall not exceed sixty percent (60%) for any six (6)-minute averaging period. Opacity in excess of the applicable limit established in 326 IAC 5-1-2 shall not continue for more than two (2) six (6)-minute averaging periods in any twenty-four (24) hour period.

(2) When removing ashes from the fuel bed or furnace in a boiler or blowing tubes, opacity may exceed the applicable limit established in 326 IAC 5-1-2 and stated in Section C - Opacity. However, opacity levels shall not exceed sixty percent (60%) for any six (6)-minute averaging period and opacity in excess of the applicable limit shall not continue for more than one (1) six (6)-minute averaging periods in any sixty (60) minute period. The averaging periods shall not be permitted for more than three (3) six (6)-minute averaging periods in a twelve (12) hour period.

(3) Operation of the electrostatic precipitator is not required during these times unless necessary to comply with these limits.

(b) If this facility cannot meet the opacity limitations in (a) and (b) of this condition, the Permittee may submit a written request to IDEM, OAQ, for a temporary alternative opacity limitation in accordance with 326 IAC 5-1-3(d). The Permittee must demonstrate that the alternative limit is needed and justifiable.

326 IAC 6-2-3(a) (Particulate Matter Emissions Limitations)

Pursuant to 326 IAC 6-2-3(a) (Particulate Matter Emissions for Sources of Indirect Heating), particulate matter from any facility used for indirect heating purposes which were existing on or before September 21, 1983 shall in no case exceed 0.42 lb/mmBtu heat input. Please refer to page 12 of this TSD for calculations. This limitation was calculated using the following equation:

$$Pt = \frac{(C)\,(a)\,(h)}{76.5\ (Q^{0.75})\ (N^{0.25})}$$

Where C = 50 F/m^3
Q = total source capacity (mmBtu/hr)
500
N = number of stacks
a = 0.8
h = average stack height (feet)
Pt = pounds of particulate matter emitted per million Btu heat input (lb/mmBtu)

The electrostatic precipitator shall be in operation at all times the boiler is in operation, in order to comply with this limit.

326 IAC 7-1.1-2 (Sulfur Dioxide Emissions Limitations)

Pursuant to 326 IAC 7-1.1-2 (Sulfur Dioxide Emission Limitations), the SO_2 emissions from unit 5 shall not exceed 6.0 pounds per million Btu (lbs/mmBtu), when combusting coal.

State Rule Applicability - Boiler Unit 6

326 IAC 5-1-3 Opacity Exemption

Pursuant to 326 IAC 5-1-3 (Temporary Alternative Opacity Limitations), the following applies:

(a) When building a new fire in a boiler, or shutting down a boiler, opacity may exceed the applicable limit established in 326 IAC 5-1-2 and stated in Section C - Opacity. However, opacity levels shall not exceed sixty percent (60%) for any six (6)-minute averaging period. Opacity in excess of the applicable limit established in 326 IAC 5-1-2 shall not continue for more than two (2) six (6)-minute averaging periods in any twenty-four (24) hour period.

(b) When removing ashes from the fuel bed or furnace in a boiler or blowing tubes, opacity may exceed the applicable limit established in 326 IAC 5-1-2 and stated in Section C - Opacity. However, opacity levels shall not exceed sixty percent (60%) for any six (6)-minute averaging period and opacity in excess of the applicable limit shall not continue for more than one (1) six (6)-minute averaging periods in any sixty (60) minute period. The averaging periods shall not be permitted for more than three (3) six (6)-minute averaging periods in a twelve (12) hour period.

(c) If this facility cannot meet the opacity limitations in (a) and (b) of this condition, the Permittee may submit a written request to IDEM, OAQ, for a temporary alternative opacity limitation in accordance with 326 IAC 5-1-3(d). The Permittee must demonstrate that the alternative limit is needed and justifiable.

326 IAC 6-2-3(a) (Particulate Matter Emissions Limitations)

326 IAC 6-2-3(a) (Particulate Matter Emissions Limitations)

Pursuant to 326 IAC 6-2-3(a) (Particulate Matter Emissions for Sources of Indirect Heating), particulate matter from any facility used for indirect heating purposes which were existing on or before September 21, 1983 shall in no case exceed 0.42 lb/mmBtu heat input. Please refer to page 15 of this TSD for calculations. This limitation was calculated using the following equation:

$$Pt = \frac{(C)\,(a)\,(h)}{76.5\ (Q^{0.75})\ (N^{0.25})}$$

Where C = 50 F/m^3
Q = total source capacity (mmBtu/hr)
500
N = number of stacks
a = 0.8
h = average stack height (feet)
Pt = pounds of particulate matter emitted per million Btu heat input (lb/mmBtu)

The electrostatic precipitator shall be in operation at all times the boiler is in operation, in order to comply with this limit.

326 IAC 7-1.1-2 (Sulfur Dioxide Emissions Limitations)

Pursuant to 326 IAC 7-1.1-2 (Sulfur Dioxide Emission Limitations), the SO_2 emissions from unit 6 shall not exceed 6.0 pounds per million Btu (lbs/mmBtu), when combusting coal.

State Rule Applicability - Ash handling

326 IAC 6-3-2 (Particulate Matter Emissions Limitations)

Pursuant to 326 IAC 6-3-2, the allowable PM emission rate from the ash handling processes shall not exceed 7.4 pounds per hour when operating at a process weight rate of 2.4 tons per hour.

The pounds per hour limitation was calculated using the following equation:

Interpolation of the data for the process weight rate up to sixty thousand (60,000) pounds per hour shall be accomplished by use of the equation:

$E = 4.10\ P^{0.67}$ where E = rate of emission in pounds per hour and
P = process weight rate in tons per hour

326 IAC 6-4 (Fugitive Dust Emissions)

Pursuant to 326 IAC 6-4, the permittee shall not allow fugitive dust to escape beyond the property line or boundaries of the property, right-of-way, or easment on which the source is located, in a manner that would violate 326 IAC 6-4 (Fugitive Dust Emissions). 326 IAC 6-4-2(4) is not federally enforceable.

326 IAC 2-7-5(13) (Preventive Maintenance Plan)

Pursuant to 326 IAC 2-7-5, a Preventive Maintenance Plan is required for this facility and its control device.

State Rule Applicability - natural gas-fired turbine generator

326 IAC 6-2-4 (Particulate Matter Emissions)

This rule is not applicable since the turbine generator is not classified as a boiler.

326 IAC 7-1.1 (SO_2 Emissions Limitations)

There is not a limit for SO_2 since this unit is combusting natural gas.

State Rule Applicability - Insignificant Activities

326 IAC 6-3-2 (Particulate Matter)

Pursuant to 326 IAC 6-3-2 (Process Operations), the particulate matter (PM) from the coal storage and handling shall not exceed an amount determined by the following equation:

Interpolation of the data for the process weight rate up to 60,000 pounds per hour shall be accomplished by use of the equation:

$E = 4.10P^{0.67}$ where E = rate of emission in pounds per hour;
And P = process weight rate in tons per hour

326 IAC 8-3-2 (Cold Cleaner Operations)

Pursuant to 326 IAC 8-3-2 (Cold Cleaner Operations) for cold cleaning operations constructed after January 1, 1980, the owner or operator shall:

(a) Equip the cleaner with a cover;

(b) Equip the cleaner with a facility for draining cleaned parts;

(c) Close the degreaser cover whenever parts are not being handled in the cleaner;

(d) Drain cleaned parts for at least fifteen (15) seconds or until dripping ceases;

(e) Provide a permanent, conspicuous label summarizing the operation requirements;

(f) Store waste solvent only in covered containers and not dispose of waste solvent or

transfer it to another party, in such a manner that greater than twenty percent (20%) of the waste solvent (by weight) can evaporate into the atmosphere.

Testing Requirements

Unit 5 and Unit 6 are required to stack test every two (2) years for Particulate Matter.
A continuous opacity monitor is used to ensure compliance with the opacity limits for Unit 5 and Unit 6.

Compliance Requirements

Permits issued under 326 IAC 2-7 are required to ensure that sources can demonstrate compliance with applicable state and federal rules on a more or less continuous basis. All state and federal rules contain compliance provisions, however, these provisions do not always fulfill the requirement for a more or less continuous demonstration. When this occurs IDEM, OAQ, in conjunction with the source, must develop specific conditions to satisfy 326 IAC 2-7-5. As a result, compliance requirements are divided into two sections: Compliance Determination Requirements and Compliance Monitoring Requirements.

Compliance Determination Requirements in Section D of the permit are those conditions that are found more or less directly within state and federal rules and the violation of which serves as grounds for enforcement action. If these conditions are not sufficient to demonstrate continuous compliance, they will be supplemented with Compliance Monitoring Requirements, also Section D of the permit. Unlike Compliance Determination Requirements, failure to meet Compliance Monitoring conditions would serve as a trigger for corrective actions and not grounds for enforcement action. However, a violation in relation to a compliance monitoring condition will arise through a source's failure to take the appropriate corrective actions within a specific time period.

The compliance monitoring requirements applicable to this source are as follows:

(1) The boilers (unit 5 and unit 6) have the following compliance monitoring:

Opacity Readings

(a) Appropriate response steps shall be taken in accordance with Section C - Compliance Response Plan - Preparation, Implementation, Records, and Reports whenever the opacity exceeds 20 percent for three (3) consecutive six (6) minute averaging periods. In the event of opacity exceeding 20 percent, response steps will be taken such that the cause(s) of the excursion are identified and corrected and opacity levels are brought back below 20 percent. Examples of expected response steps include, but are not limited to, boiler loads being reduced and ESP T-R sets being returned to service.

(b) Opacity readings in excess of 20 percent but not exceeding the opacity limit for the unit are not a deviation from this permit. Failure to take response steps in accordance with Section C - Compliance Response Plan - Preparation, Implementation, Records, and Reports, shall be considered a violation of this permit.

Preventive Inspections: Electrostatic Precipitator

(a) The following inspections shall be performed at least once every two years in accordance with the Preventive Maintenance Plan prepared in accordance with Section B - Preventive Maintenance Plan:

(1) Plate and electrode alignment, every major maintenance outage, but no less than every 2 years;

(2) ESP TR set components, performed whenever there is an outage of any nature lasting more than three days, unless such inspections have been performed within the last six months. At a minimum, the following inspections shall be performed:

- **S** Internal inspection of shell for corrosion (i.e., doors, hatches, insulator housing, roof area).
- **S** Effectiveness of rapping (i.e., buildup of dust on discharge electrodes and plates).
- **S** Gas Distribution (i.e., buildup of dust on discharge electrodes and plates).
- **S** Dust accumulation (i.e., buildup of dust on shell and support members that could result in grounds or promote advanced corrosion).
- **S** Major misalignment of plates (i.e., visual checks of plate alignment).
- **S** Rapper, vibrator and TR set control cabinets (motors, lubrication, etc.)
- **S** Rapper assembly (i.e., loose bolts, ground wires, water in air lines, solenoids, etc.)
- **S** Vibrator and rapper seals (i.e., air in-leakage, wear, deterioration)
- **S** TR set controllers (i.e., low voltage trip point, over current trip, spark rate, etc.)
- **S** Vibrator air pressure settings

(3) Air and water infiltration, once per month. The recommended method for this inspection is for audible checks around ash hoppers/hatches, duct expansion joints, and areas of corrosion.

(b) Reasonable response steps shall be taken in accordance with Section C - Compliance Response Plan - Preparation, Implementation, Records, and Reports for any improper or abnormal conditions found during an inspection. Discovery of an abnormal or improper condition is not a deviation from this permit. Failure to take response steps in accordance with Section C - Compliance Response Plan - Preparation, Implementation, Records, and Reports, shall be considered a violation of this permit.

Transformer-Rectifier (T-R) Sets

(a) The ability of the ESP to control particulate emissions shall be monitored once per shift (decided on a case by case basis), when the unit is in operation, by measuring and recording the

number of T-R sets in service and the primary and secondary voltages and the currents of the transformer-rectifier (T-R) sets.

(b) Reasonable response steps shall be taken in accordance with Section C - Compliance Response Plan - Preparation, Implementation, Records and Reports whenever the percentage of T-R sets in service falls below 90 percent. T-R set failure resulting in less than 90 percent availability is not a deviation from this permit. Failure to take response steps in accordance with Section C - Compliance Response Plan - Preparation, Implementation, Records, and Reports, shall be considered a violation of this permit.

(2) One (1) Ash Handling System

Visible Emissions Notations

(a) Visible emission notations of the baghouse stack exhaust shall be performed once per shift during normal daylight operations when exhausting to the atmosphere. A trained employee shall record whether emissions are normal or abnormal.

(b) For processes operated continuously, “normal” means those conditions prevailing, or expected to prevail, eighty percent (80%) of the time the process is in operation, not counting startup or shut down time.

(c) In the case of batch or discontinuous operations, readings shall be taken during that part of the operation that would normally be expected to cause the greatest emissions.

(d) A trained employee is an employee who has worked at the plant at least one (1) month and has been trained in the appearance and characteristics of normal visible emissions for that specific process.

(e) The Compliance Response Plan for this unit shall contain troubleshooting contingency and response steps for when an abnormal emission is observed. Failure to take response steps in accordance with Section C - Compliance Response Plan - Preparation, Implementation, Records and Reports shall be considered a violation of this permit.

Baghouse Inspections

(a) An inspection shall be performed each calender quarter of all bags controlling PM emissions from the ash handling operation when venting to the atmosphere. A baghouse inspection shall be performed within three months of redirecting vents to the atmosphere and every three months thereafter. Inspections are optional when venting to the indoors. All defective bags shall be replaced.

(b) If an abnormal or improper condition is found during an inspection, the Permittee shall take reasonable response steps

in accordance with Section C - Compliance Response Plan - Preparation, Implementation, Records, and Reports. Discovery of an abnormal or improper condition is not a deviation from this permit. Failure to take response steps in accordance with Section C - Compliance Response Plan - Preparation, Implementation, Records, and Reports, shall be considered a violation of this permit.

Broken or Failed Bag Detection

In the event that bag failure has been observed:

(a) For multi-compartment units, the affected compartments will be shut down immediately until the failed units have been repaired or replaced. Operations may continue only is there are no visible emissions or if the event qualifies as an emergency and the Permittee satisfies the emergency provisions of this permit (Section B - Emergency Provisions). Within eight (8) hours of the determination of failure, response steps according to the timetable described in the Compliance Response Plan shall be initiated. For failure with corresponding response steps and timetable not described in the Compliance Response Plan, response steps shall be devised within eight (8) hours of discovery of the failure and shall include a timetable for completion. Failure to take response steps in accordance with Section C - Compliance Response Plan - Preparation, Implementation, Records, and Reports, shall be considered a violation of this permit.

(b) For single compartment baghouses, failed units and the associated process will be shut down immediately until the failed units have been repaired or replaced. Operations may continue only if the event qualifies as an emergency and the Permittee satisfies the requirements of the emergency provisions of this permit (Section B - Emergency Provisions).

Baghouse Parametric Monitoring

(a) The Permittee shall record the total static pressure drop across the baghouse used in conjunction with the ash handling at least once per shift when the ash handling is in operation when venting to the atmosphere. When for any one reading, the pressure drop across the baghouse is outside the normal range of 3.0 and 6.0 inches of water or a range established during the latest stack test, the Permittee shall take reasonable response steps in accordance with Section C - Compliance Response Plan - Preparation, Implementation, Records, and Reports. A pressure reading that is outside the above mentioned range is not a deviation from this permit. Failure to take response steps in accordance with Section C - Compliance Response Plan - Preparation, Implementation, Records, and Reports, shall be considered a violation of this permit.

(b) The instrument used for determining the pressure shall comply with Section C - Pressure Gauge and Other Instrument Specifications, and shall be calibrated at least once every six (6) months.

(3) The natural gas-fired turbine generator has the following compliance monitoring:

Sulfur Content and Nitrogen Content

The permittee shall monitor the nitrogen and sulfur content of the fuel being fired in the turbine. The frequency of determination of these values shall be as follows:

(a) If the turbine is supplied its fuel from a bulk storage tank, the values shall be determined on each occasion that fuel is transferred to the storage tank from any other source.

(b) If the turbine is supplied its fuel without intermediate bulk storage the values shall be determined and recorded daily. Owners, operators or fuel vendors may develop custom schedules for determination of the values based on the design and operation of the affected facility and the characteristics of the fuel supply. These custom schedules shall be substantiated with the data and must be approved by the administrator before they can be used to comply with the monitoring requirements.

The sulfur content information obtained from this monitoring shall be used to document compliance with the limits stated in Conditions D.3.2 of the permit.

Conclusion

The operation of this electric generating station shall be subject to the conditions of the attached proposed Part 70 Permit No. T017-7478-00006.

Calculations for Particulate Matter Limitations from Units #5 and #6

$$Pt = \frac{(C)(a)(h)}{76.5\ (Q^{0.75})\ (N^{0.25})}$$

Where C = 50 F/m^3
Q = total source capacity (lbs/mmBtu)
N = number of stacks
a = 0.8
h = average stack height (feet)
Pt = pounds of particulate matter emitted per million Btu heat input mmBtu)

$$h = \frac{\sum_{i=1}^{N} 3\ H_1 \times pa_i \times Q}{\sum_{i=1}^{N} 3\ pa_i \times Q}$$

Where pa = controlled emission rate in lb/mmBtu using the emission factor from AP 42 or stack test data.

Unit #5 (Constructed 1955) & Unit #6 (Constructed 1962)

Since the boilers were each constructed and in operation before 1972 they were limitations were calculated together.

$$h = \frac{(150 \times 0.006 \times 200) + (150 \times 0.006 \times 300)}{(0.006)(200) + (0.006)(300)}$$

h= 150

$$Pt = \frac{(50)(0.67)(150)}{(76.5)(500)^{0.75}(2)^{0.25}} = \frac{5025}{9703} = 0.51 \text{ lb/mmBtu}$$

**** ***Unit #5 and Unit #6 will each have a limit of 0.417 lb/mmBtu, this was derived using the above calculation*** ****

Particulate Emission Rate before controls

6,284 ton/year x year/8,760 hours x 2,000 lbs/ton x 1 hour/500 mmBtu = 2.87 lb/mmBtu

Particulate Emission Rate after controls (Cyclones) and ESP

6,284 ton/year x (1 - 99.8) = 12.56 ton/year

12.56 tons/year x year/8,760 hour x 2,000 lbs/ton x 1 hr/500mmBtu = 0.006 lb/mmBtu

Appendix A: Potential Emissions Calculations
Bituminous Coal for Boilers

Company Name: Logansport Municipal Utilities
Address, City IN Zip: 8th and Race Streets, Logansport, Indiana 45947
Tilte V: T017-7478-00006
County: Cass
Reviewer: Laura M. Groom
Date: May 2001

COAL

S = Weight % Sulfur = 1.5
A = Weight % ash = 8

Heat Input Capacity MMBtu/hr		Heat value mmBtu/lb	Potential Throughput tons/yr	Construction Date
200	Unit 5	0.0115	76,174	Unit 5 = 1955
300	Unit 6	0.0115	114,261	Unit 6 = 1962

		Pollutant (lbs/ton)						HAPs			
		PM	PM-10	SO2	NOx	VOC	CO	Magnesium	Cr	As	Lead
Emission Factor		66	13.2	38S	11	0.07	5	0.01	0.00026	0.00041	0.00042
Potential Emissions											
in tons per year:											
	boiler 5	2513.74	502.75	2474.89	418.96	2.67	190.43	0.38	0.01	0.02	0.02
	boiler 6	3770.61	754.12	3712.34	628.43	4.00	285.65	0.57	0.01	0.02	0.02
	Total (TPY)	**6284.35**	**1256.87**	**6187.23**	**1047.39**	**6.67**	**476.09**	**0.952**	**0.025**	**0.039**	**0.040**

Methodology:
1 lb bitumous coal has a BTU rating of 11,500
Emission Factors are from AP 42 (update 9/98), Tables 1.1-3 and 1.1-4 (SCC 1-01-002-04/24,1-02-002-04/24, 1-03-002-09/24)
Potential Throughput in tons/hr=[Heat input Capacity(mmBtu/hr)/(Heat value of coal(Btu/lb)/10^6)]/2000lbs
Emission (tons/yr) = Throughput (tons/ yr) x Emission Factor (lb/ton)/2,000 lb/ton
Conversion from Btu (mean)/hour to MMBtu: Divide by 1,000,000.

Appendix A: Emissions Calculations
Internal Combustion Engines - Natural Gas
Turbine (greater than 600 HP)

Company Name: Logansport Municipal Utilities
Address, City IN Zip: 8th and Race Streets, Logansport, Indiana 46947
Title V: T017-7478-00006
County: Cass
Reviewer: Laura M. Groom
Date: May 2001

Heat Input Capacity MMBtu/hr	Potential Throughput kgals/year	S = Weight % Sulfur
75	4692.8571429	0.3

	Pollutant				
	PM*	SO2	NOx	VOC	CO
Emission Factor in lb/kgal	0.0	0.28 *(.94*S)*	0.3	0.00	0.1
Total Potential Emissions (tons/year)	2.2	92.0	105.1	0.7	26.9

Methodology

Emission Factors are from AP-42 Tables 3.1-1 and 3.1-2a
Potential Emissions (tons/year) = [Heat Input (MMBtu/hr) x Emission Factor (lb/MMBtu)] x (8760 hr/yr) / (2000 lb/ton)]

Updated 4/00